

# MANUFACTURERS' RECORD

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BALTIMORE, APRIL 15, 1909.

## SOUTHERN SENATORS AND THE TARIFF.

After less than a month's debate, which has really been principally a case of set speeches, one of the most radical tariff bills ever projected in this country has gone to the Senate. The measure as originally introduced in the House of Representatives was of such a complicated nature that the changes made in it have not been comprehended fully, as to their consequences, even by members who were most active in bringing about prompt action upon it. The business is now in the hands of the Senate, and already there are indications that the confusion in the public mind, if not in the mind of the Senate itself, about the workings out of the tariff may become greater than ever before the question has been finally settled. Promptness in settling it is of minor importance to settling it in the interest of the whole country.

If the special session of Congress is not to pass into history as a big bluff, and a most expensive one, at that, for the people of the country, enabling party leaders to claim that platform pledges have been fulfilled, the interests of the whole country must be served in the revision of the tariff effected in the special session. Many interests of great sections of the country will be affected disastrously, if the bill as it left the House, and even as the Senate has proposed to amend it, becomes law. Disaster would fall most heavily upon the South, but that would injure the whole country. Therefore, the Senators from the South must lead in a determined effort to prevent catastrophe. They

must turn their backs upon academic theories or theories that might safely be put into practice in a country that is purely agricultural, or purely manufacturing, or purely mining, and insist that tariff revision must be for the greatest good to the greatest number in a country whose agricultural, mining, lumbering and manufacturing industries have by no means been developed to their limits. Southern Senators must insist that as long as a protective tariff is recognized in the economy of the nation it must be framed and administered for the benefit of the whole nation, and not for the benefit of a section, no matter how small; that if one section demands the admission to this country free of duty of "raw materials" that are produced or producible in other sections, the finished products of such raw materials shall also be admitted free of duty, and that all sections of the tariff bill shall be so carefully scanned and weighed in relation to one another that it will be impossible for an obnoxious provision in one section to be eliminated, while the same provision in more intense form lurks undiscovered in another section on its face unrelated to other parts of the bill. The situation demands the keenest kind of alertness, and Senators should take care lest they assent to provisions that may strike at the heart of many industries.

## PUBLIC IMPROVEMENTS IN THE SOUTH.

Suggestive of the steadily maintained interest in public improvements in Southern communities is the fact that in one mail on April 12 the MANUFACTURERS' RECORD received, among a score of advertisements for its columns, six inviting proposals for such work. They were from City Engineer A. T. Dickey of Galveston for the construction of a water main across the Galveston ship channel; from J. L. Ludlow, consulting engineer, Winston-Salem, N. C., for macadam roads for Forsyth county, N. C., and for a filter plant and reservoir at Waynesville, N. C.; from City Engineer Bascom Sykes of Portsmouth, Va., for paving bricks; from Mayor A. W. Noble of Laurel, Miss., for \$30,000 of bonds for general improvements, and from H. S. Jaudon of Atlanta for street paving at Gainesville, Ga. These projects are typical of progressive conditions in the South, emphasized by the proposals which have been invited since April 1. The projects covered by these include five bridges for Spartanburg and Laurens counties, South Carolina; bridge at Harrisville, W. Va.; reinforced concrete bridge at Norfolk, Va.; concrete and steel bridge 420 feet long at Paducah, Ky.; steel bridge at Ellijay, Ga.; structural steel and cast iron for additions to the Celeste steel sheds at New Orleans; structural steel bridge 1600 feet long in Mecklenburg county, North Carolina; a part of the comprehensive sewerage system at Louisville; sanitary sewer construction at Birmingham; sanitary sewer system at Plainview,

Texas; sewer system at Clearwater, Fla., and at Mt. Sterling, Ky.; storm and drainage sewer at Ada, Okla.; sewers at Charleston, S. C.; Chattanooga, Tenn.; Enid, Okla., and Montgomery, Ala.; 2500 feet of cast-iron pipe and accompanying nozzles, valves, etc., and a 40,000-gallon steel tank on a steel tower, with power-house, etc., for water-works at Faunsdale, Ala.; water-works at Plainview, Texas, and at Clearwater, Fla.; furnishing and laying water mains during the year at Augusta, Ga.; 8500 square yards of cement sidewalks at Dublin, Ga.; vitrified paving blocks at Enid, Okla.; 4735 square yards of concrete walk at Charlotte, N. C.; clay-gravel roadway paving at Montgomery, Ala.; paving one mile of road at Wheeling, W. Va.; construction of one and one-half miles of highway in Baltimore county, Maryland; city market building at Durham, N. C.; guardhouse at St. Matthews, S. C.; courthouse at Fort Pierce, Fla.; \$45,000 city hall at Albany, Ga.; \$10,000 school building at Shandon, S. C., and \$15,000 school building at Alton Park, Tenn.; United States Government undertakings, including an office building at Fort Crockett, Texas; postoffice at Yazoo, Miss.; seawall and dredging at navy-yard, Norfolk, Va., and officers' quarters at Fort Dade, Fla.

Among the semi-public undertakings for which proposals have been invited since the first of the month are the completion of the Mission Ridge tunnel, Chattanooga, Tenn.; \$60,000 college building at Durant, Okla.; \$25,000 dormitory for a college at Stillwater, Okla.; \$140,000 Young Men's Christian Association building at Norfolk; \$15,000 church at Millen, Ga.; a church at Alva, Okla.; single-track railway bridge at Ferguson, S. C., and \$8000 warehouse at Augusta, Ga.

These announcements of definite settled plans for improvements of various kinds have been made within two weeks only. They are but very few of the projects either under way, decided upon or under contemplation in all parts of the South, manifesting the determination of States, counties, cities and towns to equip themselves to the best of their ability with the best results for sanitation, education, convenience and comfort that the engineer and the constructor can induce.

## SUPPOSE THE STEEL CORPORATION SHOULD BUILD IN EUROPE?

The International Harvester Co. having decided to build large works in Europe to take care of its increasing European trade, the thought naturally arises, suppose the United States Steel Corporation, with its almost limitless command of capital, should decide to build somewhere in Europe a plant modeled on the lines of that at Gary, Ind.? What a commotion there would be in the iron and steel world if an announcement should ever be made to that effect, and what shaking of bones there would be among many of the iron and steel

concerns of the Old World! The vastness of the aggregation of money and skill united in the Steel Corporation creates possibilities undreamed of a few years ago.

## DEVELOPMENT OF THE TENNESSEE SEE COAL, IRON & RAILROAD.

Since the purchase of the Tennessee Coal & Iron Co. by the Steel Corporation about \$6,000,000 has been expended in improvement work and in completing the Ensley steel plant, then under construction. It will probably take \$5,000,000 or more to finish the work projected and to round out the Ensley plant, according to the views of the experts. The old management, to which the Steel Corporation succeeded, we believe, had in mind after finishing the Ensley works the thought of building in the future an entirely new plant at a new location where, with ample ground, an abundant supply of water for all purposes and possibly river transportation to the Gulf, great possibilities for expansion existed. It would seem logical for the Steel Corporation to take up this idea and after rounding out the Ensley situation to build at some new point where all raw materials could be cheaply assembled a plant modern and complete in every detail for the production of finished steel. This plant could be designed with special reference to the export trade, as well as to domestic business.

The rapid growth of the South, its increasing consumption of architectural iron and steel and of railroad materials, the advance in reinforced concrete construction, all tend to rapidly broaden the market for finished steel. There is every possible assurance that the consumptive requirements of the South will increase more rapidly than the local production. But added to the home demand is the certainty of expanding foreign trade, especially with the West Indies, Central and South America and the Orient. The steel for these countries should be made in the South, and the MANUFACTURERS' RECORD believes that the far-seeing men who control the management of the Steel Corporation so fully recognize this that they will take advantage of the strategic position held by reason of the ownership of the Tennessee Company, with its vast stores of raw material. We would not be surprised if the future should prove that even now all these matters are receiving the most careful investigation.

## PARALYZING SOUTHERN EDUCATIONAL INSTINCTS.

I enclose a brief pamphlet in line with repeated utterances of the MANUFACTURERS' RECORD.

A real peril threatens the country, and it can be averted only by arousing the people to these facts. I am sure you will render high service if you continue to agitate the matter.—Extract from a letter of Bishop Warren A. Candler of the Methodist Episcopal Church, South.

Men acquainted with the educational instincts of the Southern people cannot

but regret the tendency to deterioration in that respect that has been notably manifested during the past 10 years. In proportion to their financial abilities, the people of the South have not in that period taken advantage of opportunities for bettering their common school systems; they have not maintained their record of 25 years ago. The fact of this tendency to deterioration will probably amaze folks who during the past two or three weeks may have been impressed by an exhibit of figures originating in the latest report of the National Commissioner of Education showing, presumably, that between 1904 and 1907 moneys for common schools in 11 of the Southern States derived annually from local taxation and State appropriations increased, in round numbers, from \$20,350,000 to \$26,988,000. Causes of the deterioration are obscured for artificial thinkers by the primary suggestion in the report of the Commissioner of Education dwelling upon "the large vitality and significance" of the "remarkable public school campaign now in progress in most of the Southern States." According to the Commissioner of Education, "this new educational movement throughout the South has been largely brought about by the combined efforts of a remarkable group of educational leaders;" it has been "greatly furthered by voluntary educational organizations," and "it has had, moreover, the powerful impulse of certain large, constructive organizations, the Southern Education Board, the General Education Board and the more recent Negro Rural School Fund (the Anna T. Jeanes Foundation), which in a marked degree have massed public sentiment on the side of this educational propaganda and have made large resources available at particularly difficult points in the undertaking." Judging by the past, much of that sort of patter is likely to be circulated around the Atlanta meeting this week of the Conference for Education in the South, which originated the Southern Education Board and the General Education Board. It was predicted when the enterprise popularly known as the Ogden Movement was launched that such claims as to the wonderful influence and results would be made. But however gratifying it may be to note the increase between 1904 and 1907 in moneys for common schools in 11 Southern States from \$20,350,000 to \$26,988,000, it must be borne in mind that those figures by themselves prove nothing absolutely, and that in comparison with other figures they indicate that not only was the increase in the three years made in spite of the Ogden Movement, but that the increase should have been far greater had it not been for the intrusion of that Movement, and that the comparative lagging must have been due to that Movement. The accompanying table, showing totals for the 14 Southern States in which the figures for 1907 are approximate, though within the limits of conservatism, is a fair basis for the comparison:

| Years.    | Property, Assessed Value. | Property, True Value. | Expend's, Common Schools. |
|-----------|---------------------------|-----------------------|---------------------------|
| 1880..... | \$3,051,000,000           | \$7,505,000,000       | \$9,796,000               |
| 1890..... | 4,680,000,000             | 11,151,000,000        | 19,330,000                |
| 1900..... | 5,458,000,000             | 13,863,000,000        | 26,535,000                |
| 1907..... | 9,000,000,000             | 19,000,000,000        | 40,827,000                |

In 1880 the South was just beginning to recover from the ruin of war and the robbery of reconstruction. In the next 10 years, full of vigor and hope, the South increased the assessed value of its property from \$3,051,000,000 to \$4,680,000,000, or by 52 per cent., the true value of its property from \$7,505,000,000

to \$11,151,000,000, or by 48 per cent., and its expenditures for common schools from \$9,796,000 to \$19,330,000, or by 97 per cent. In that period the average price of cotton ranged high, the lowest average price per pound for middling uplands in New York having been 9.44 cents. Between 1890 and 1900 the highest average price per pound in any year was 9.03 cents, and in 1899 6 cents a pound, the lowest but one average annual price recorded, was reached. It was natural that in that 10-year period the increase in the assessed value of property in the South should have been less than half of the increase in the preceding decade, from \$4,680,000,000 to \$5,458,000,000, or by 17 per cent. only, in the true value of property from \$11,151,000,000 to \$13,863,000,000, or by 24 per cent. only, and in expenditures for the common schools from \$19,330,000 to \$26,535,000, or by only 37 per cent. At the turn of the century, it will be recalled, the average price of cotton per pound took a turn for the better, reaching 10.27 cents in 1903 and 12.42 cents in 1904, dropping to 9.11 cents in 1905, but ranging above 11 cents a pound in the past three years. Good prices for cotton are invariably reflected in prosperity throughout the South. Therefore it is not surprising that between 1900 and 1907 there was an increase in the assessed value of property in the South from \$5,458,000,000 to \$9,000,000,000, or by 64 per cent., and in the true value of property from \$13,863,000,000 to \$19,000,000,000, or by 37 per cent.

But the increase in expenditures for common schools was at the rate of 54 per cent. only, from \$26,535,000 to \$40,827,000. The impetus gained in the 1880-1890 period, which was halted in the next 10 years of comparative slackening in increase of Southern wealth, has not been regained in the period of great expansion of wealth since 1900. The reasonable expectation has not been realized. The average rate of increase annually in common school expenditures between 1880 and 1890 was 9.7 per cent., whereas between 1900 and 1907 the average was 7.7 per cent. At the average annual rate of increase of the earlier period the increase in the later period should have been to a total of \$52,273,000 instead of \$40,287,000. Indeed, there should normally have been a greater rate of increase in the later period than in the earlier one.

But one inference presents itself. In the period between 1880 and 1890 the South had the advantage not only of being able again to respond to its natural instincts in the educational field, but also of a general movement to prevent the South from being degraded by means of the pauperizing movement known as the Blair Bill for the education in the South. Though defeated by the sense of American self-respect, that movement was persistently advocated during the next 10 years, and its leading advocate became the supervising director of the Southern Education Board, the twin product, with the General Education Board, of the Conference for Education in the South, in a new movement which has set the twentieth century pace for mendacity in education, embracing State, denominational and private educational systems. It is not surprising that the natural instincts of the South have thus been endangered by paralysis.

The approach upon the South has been so adroit, and in no respect more so than in the arrangement by which, when the General Education Board or the Southern Education Board is criti-

cised, technical denial is made possible by discussion of the Conference for Education, and vice versa, that even some of the participants seem unaware of the exact situation. For instance, in advance of this year's meeting of the Conference at Atlanta an attempt to defend it was made by the president of a Southern denominational college which has succeeded in rounding up pledges aggregating four times the amount of the sum conditionally pledged by the General Education Board. The correspondence preliminary to this donation included a letter from the General Education Board enclosing a request that if the pledge was satisfactory to the Board of Trustees, "I will ask them to indicate such approval by the adoption of a resolution substantially as follows:

The Board of Trustees of \* \* \* College hereby accepts the conditional pledge of the General Education Board, dated May 29, 1906, and covenants and agrees that if the terms of the pledge are complied with and the money paid by the General Education Board, that the Board of Trustees of \* \* \* College will faithfully perform the covenants on behalf of said College contained in said pledge.

The pledge of the General Education Board by Robert C. Ogden, Chairman, called upon the college to agree and covenant for itself and its successors that no part of the fund contributed by the General Education Board should ever be used for specifically theological instruction; that accredited representatives of the Board should at all reasonable times have the right to inspect the books, accounts and securities of the college; that the money contributed by the Board should forever be held as a separate fund; that the Board should have an option to take back the fund under certain conditions, and that the Board should "forever have and retain a specific lien on said fund and on the securities in which it shall from time to time be invested, as security for the faithful observance by said college of the terms of this agreement."

The president of this college was apparently unaware of the significance of the letter to himself in which an officer of the General Education Board, in anxiety to make the thing as binding as possible, had the presumption to dictate to the trustees of a Southern denominational college the phraseology of a resolution to be adopted by them accepting the tender of the General Education Board. But it may not be taken amiss should we suggest that he and all other earnest friends of education read carefully a booklet\* just issued by Bishop Warren A. Candler of the Methodist Episcopal Church, South, whose home is in Atlanta. Bishop Candler has set forth a mass of telling facts and calm, logical arguments in defense of Southern educational institutions against the \$43,000,000 Educational Trust menacing them. Any man not convinced about the menace after reading this booklet must be a man who does not wish to be convinced. Probably its most significant statement is contained in the prefatory words by Bishop Candler. He says:

The articles which compose this pamphlet were prepared for publication in the *Atlanta Journal*, and the first two were printed in its columns.

The editor of the *Journal* withheld the last two from publication out of a consideration of courtesy to the meeting of the "Conference for Education in the South" in the city of Atlanta, explaining to the writer that he agreed with the position of the writer on the general subject and would print the two pa-

\*Dangerous Donations and Degrading Doles. By Bishop Warren A. Candler of the Methodist Episcopal Church South. Copies may be obtained from the Lester Book Co., Atlanta, Ga.

pers after the "Conference" adjourned. As is evident on the face of the articles, they are entirely courteous, and it does not appear that the "Conference" should be exempted from courteous criticism because of the place at which it happened to meet this year, especially when it is remembered that the articles were prepared before the writer of them knew where or when its session would be held and that he had no part in inviting the body to meet in Atlanta. "The Conference" bears but a secondary and tributary relation to the "General Education Board," and the emphasis of these papers does not fall on it. It can not escape entirely criticism of the "General Education Board," which was originated in the "Conference" \* \* \* and it is entitled to no exemption from criticism while it is thus inseparably related to the "General Education Board."

And besides all this, when a great danger threatens the country there is no time for standing on mere ceremony. It is time to cause the people to understand the peril which menaces their institutions of learning and their civilization. \* \* \* It is hoped that this discussion may contribute in some measure to arousing our people to action in time to save our colleges and universities from being captured and controlled by alien authorities, and to save them also from being crushed for lack of adequate support and endowment. Our institutions of higher learning must be free from domination from without, and they must be made strong enough to maintain their freedom and do their work well.

It will be interesting to note the criticisms, more or less indecent, which expectant or actual beneficiaries of the General Education Board or their confidential agents will, if they dare, utter against Bishop Warren A. Candler because of his plea for self-respect and independence in education.

#### BUREAUCRACY.

The extent of the evil of Government by bureaus, hardly appreciated by the average citizen, is strikingly exemplified in a plea, by a professional sociologist, of course, in behalf of a proposed "Children's Bureau" in the Department of the Interior. The plea is, in effect, that such a bureau calls for the expenditure of a very modest outlay, and that, because there are already many bureaus, one more ought to be created. The plea describes these bureaus as being maintained by "the Government." They are maintained by money paid in taxes by the people of the country, and the bunch of bureaus mentioned represents an annual expenditure, from first to last, of between \$170,000,000 and \$180,000,000. They and others are worthy of prolonged and careful study by the new committee of the United States Senate intended to place a check on expenditures of the people's money. When this committee is told that the proposed bureau calls for a comparatively small expenditure the committee should keep to the front other bureaus of comparatively modest pretensions at first. There is the Pension Bureau, for instance. In 1870 there were 198,686 pensioners, to whom were paid \$28,340,202. That was a reasonable situation, and without artificial stimulation by individuals whose living depends upon increasing the basis for appropriations for Government pensions it would by this time have been much better. But by 1880 the number of pensioners increased to 250,802 and the amount of expenditures on that account had doubled to \$56,777,174. In 1890 there were 537,944 pensioners, receiving \$106,936,855, and by 1902 the number reached high-water mark for the time—999,446, receiving \$138,488,500—and though the number has since then shown some inclination to shy from the million-mark, the latest appropriation for pensions amounts to more than \$160,000,000 annually.

What possibilities stretch before a bureau charged with the task of inves-



tigating and reporting upon "all matters pertaining to the welfare of children and child life, and shall especially investigate the questions of infant mortality, the birth-rate, physical degeneracy, orphanage, juvenile delinquency and juvenile courts, desertion and illegitimacy, dangerous occupations, accidents and diseases of children of the working classes, employment, legislation affecting children in the several States and Territories, and such other facts as have a bearing upon the health, efficiency, character and training of children!"

That line of investigation is strictly sociological. Its possibilities, in view of the steadily increasing number of graduates of schools of philanthropy belched forth upon the country and of drifts from various professions suddenly become experts—for salaries—in social uplift work, is indicated by the recent experience of a couple of sociological investigations under the auspices of Government bureaus. One of them had to do with the question of immigration. Called to account by a Senate resolution, this investigation revealed an expenditure between April 1, 1907, and February 27, 1909, of \$344,795, with nothing apparently to show for it but a lot of words and a summer trip to Europe. Nevertheless, though \$107,000 have been appropriated for the Bureau of Immigration for the next fiscal year, there is tucked away in the sundry civil-appropriation act for 1910 another \$150,000 for this special investigation. That investigation is within the purview of the Department of Commerce and Labor, which simply reeks with expensive and futile sociological bureaus. One of them is the Bureau of Labor. For that bureau the regular appropriation for 1910 aggregates at least \$172,000. This sum does not include the provision for the reappropriation of the unexpended balance of the \$150,000 appropriated in May, 1908, for the fiscal year 1909, "to complete the investigation into the industrial, social, moral, educational and physical condition of women and child workers." This investigation was started under an act of 1907—appropriation \$150,000 or \$200,000—contemporaneous with the act providing for the immigration investigation. The two enterprises will absorb pretty nearly \$1,000,000 of the taxpayers' money, and the advantage of them to anybody but those who have drawn salaries, per diems, etc., in them is very, very questionable. But they are valuable, nevertheless, in demonstrating to what extremes sociological bureaus under Government auspices may run. The waste of money upon them is bad enough. But it is nothing compared with their evil influence upon the public mind. For they are utterly repugnant to the spirit of American Government, are breeders of an increasing horde of unnecessary parasites upon the public purse, and the modesty of their preliminary pretenses equals the modesty of the camel that asked only to be permitted to put its nose into the tent, but presently walked off with the whole outfit.

National lawmakers assuming to bring Government expenditures within the limits of constitutional law, if they are not too much tangled up in deals for appointments of constituents in bureaus existing or to be created by their votes, should go thoroughly into the extravagances of Government bureaus and eliminate most of them for good and all, regardless of the howling of any mob, however respectable and educated and "philanthropic."

#### ANOTHER SOUTHERN COMMERCIAL CONGRESS FIZZLE.

In the early part of last week several Southern newspapers published in good faith under a Washington date line announcement that half a dozen Senators and Representatives in Congress had issued a call for a mass-meeting on the night of April 8 at Washington in the interest of the late "Southern Commercial Congress." The reputed signers of the call, calculated to impress folks at a distance with the notion that the enterprise was receiving the sanction of the Congress of the United States, have probably come to the conclusion that they made a mistake. Some of the newspapers which published the announcement are probably wondering why it was offered to them for publication. For the mass-meeting neither met nor massed. But the next day one of the Washington newspapers said that it had been postponed, and that the essence of the speech which its real furtherer had intended making would be embodied in a letter. Why the postponement happened has not been officially announced.

But it is fair to ask, Who is paying the expenses at Washington of the promotion of the late "Southern Commercial Congress?" Quite a tidy sum is involved in banquets, and some influence must be quite determined to push against odds the scheme behind getting that \$1,000,000 for the endowment of the Southern Architectural Monument. The brain route being closed, resort must be had to the stomach route. Be that as it may, Southern newspapers must be in a position to understand why the announcement of the mass-meeting was sent to them. For, coincidentally was mailed to them from Washington two circular-letters from the putative "Southern Commercial Congress." With one letter was enclosed four pages of three weeks' old hash concocted about the "Southern Commercial Congress" banquet of March 15. And the offer was made as to this write-up:

Please feel free to use any portion that recommends itself to you or that might interest your readers either now or later. In fact, if you would like illustrations in connection with any mention that you wish to make of the Congress, I can supply matrices without cost, either for one, two or more pages.

That was addressed to "Every Newspaper of the South." The second letter was addressed to "Business Men of the South." With it was enclosed a copy of a letter of March 5 from a business man of Missouri stating that he was sending a check for \$1000 for membership in the "Southern Commercial Congress." The enclosing letter from the promotion urging contributions for the endowment of the congress said:

We shall be glad to take up correspondence relative to participating in the endowment. Arrangements can be made whereby payment of the entire amount can extend over a period of time.

The plan of persuading one thousand business men of the South to part with one thousand dollars each in support of the scheme in Washington is evidently not panning out with the promptness that was expected. The promotion ought by this time to have learned that very few old birds in Congress can be caught by banquets. How long will it be before Southern newspapers understand the purpose of the banquets?

The report of the building inspector of Birmingham shows that building operations in that city for March were valued at \$158,847, which is an increase over March of last year of about \$30,000.

## On the Verge of Vast Southern Railroad Expansion.

By W. J. MEANY.

[Written for the Manufacturers' Record.]

The progress that will be made in the South within the next 10 years is likely to surpass the achievements of any similar period in the history of our country. Vast sums of money are ready to be poured into her coffers to prepare her for the revival of business throughout the country, and especially to enable her to handle the business that will accrue to her through the opening of the Panama Canal. Her present industries will be developed to their full capacity. New sources of wealth will be opened. Her railroad trackage will be almost doubled in extent. Her rivers and harbors will be improved and new ports created. Her foreign trade, as well as her trade with the North and the West, will be enormously increased.

Our great captains of industry are already preparing to direct the tide of prosperity that will soon flow over the South. The leaders of them have already taken their places at their posts, and their followers will not be long in taking theirs. Morgan has long held vast interests in the Southern States, and would like to increase them. Harriman's ownership of the Illinois Central system and the Central of Georgia Railway gives him a stake in the South, which he is sure to strengthen. His agreement with Gould affords his Pacific lines an outlet to Eastern tidewater; but by closing the gap between Andalusia or Lockhart and New Orleans he would have a line of his own from ocean to ocean, and this would be more to his liking. It is far from improbable that some of the millions he says he is going to spend on the Central of Georgia will be used in completing such a line.

The Standard Oil interests may be said to be standing on the threshold waiting to see how the cat will jump. Rogers has completed his line from Norfolk to the West Virginia coal fields, and Flagler is rapidly pushing to completion his line to Key West and his ocean port at that place, while the entire "interest" is gobbling up huge chunks of West Virginia mineral lands.

There is good ground for believing that James Hill and the Standard Oil people are interested in Edwin Hawley's purchase of the Chesapeake & Ohio Railway, and this makes it appear as if another transcontinental route, with a Southern port as its eastern terminus, as well as a Southern outlet for the immense traffic of the lake region, were in contemplation.

All this means that from this time forward Southern railroad legislation must be fair and liberal, instead of being, as too often it has been, of a character to restrict and embarrass the railroads. Otherwise, not a tithe of the developments that now are under consideration will be carried out. In that case business will revive throughout the country, new sources of wealth now undreamed of may be discovered in the South, the Panama Canal will be opened—but the South will be able to take scarcely more than a fraction of the new business that through these favorable circumstances will be offered to her. She will not have the facilities for handling it.

It has been predicted by no less an authority than B. F. Yoakum, chairman of the executive committee of the Rock Island-Frisco system, that from the Gulf to St. Louis the Mississippi will have to be in time furnished with a succession of docks and wharves to facilitate the movement of the enormous traffic that will be poured into and out of the Southern States.

A gentleman long associated with the present owners of the Chesapeake & Ohio

Railway, who played a prominent part in that and other transactions of the Hawley party, has informed the writer that the Chesapeake & Ohio purchase was merely a preliminary step in a plan for the establishment of a new through line, under one management, connecting the Great Northwest, the Lake country and the Middle West with tidewater at Chesapeake Bay. The movement contemplates the development of the mineral fields and forest lands of the intermediate territory. Ample preparations will be made to handle the immense addition to the traffic which will result from these developments and from the opening of the new line to the Great Lakes and to the wheat belt. Immense sums of money will be expended during the next five years in the improvement and extension of the railroads, the construction of grain elevators and warehouses, the enlargement and betterment of shipping terminals, in adding to and increasing the efficiency of the rolling stock and in providing floating equipment for use both on Chesapeake Bay and on the Great Lakes. The commencement of work on these improvements is deferred until the return of Chairman Trumbull from Europe, which will be in about two or three months.

Interested in these developments are some of the most prominent capitalists and men of affairs in the country or in the world. Their entrance into the Southern industrial field is due to the belief that the public opinion of the South is undergoing a change for the better with regard to invested capital, and especially with regard to unfair railroad legislation. The step they have thus far taken leaves them still on the threshold of the South, but should their expectation of a hospitable reception be borne out by the events of the next few years they have future plans, which embrace the entire country south of the Ohio and the Potomac in their scope, and the consummation of which will transform that section within the next 10 years into a country of humming industry and teeming wealth.

Negotiations are in progress having for their object the acquisition of connecting railroads to bind the Chesapeake & Ohio to the so-called Hawley system in the West and Northwest—the Chicago & Alton, the Toledo, St. Louis & Kansas City, the Iowa Central and the Minneapolis & St. Louis—but these negotiations are not in such a state of forwardness as to admit of their being made public at this time. Negotiations are also under way, in fact, they may be said to be practically completed, by which the greater Hawley system will secure trackage or traffic rights over a line to the Pacific coast.

When asked to express an opinion as to the probable future of the Southern States, and to point out what obstacles lie in the way of her attaining the leading position as compared with the other sections of the country, the gentleman referred to answered very earnestly as follows, declaring that he was voicing the sentiments of the men he is associated with as well as his own:

"The people of the South have been standing in their own light. With an agreeable climate, an abundance of labor, a land fairly littered with natural wealth, and capital to be had almost for the asking, they should long ago have realized for their section its natural destiny and become themselves the wealthiest and most influential people in America. The wonderful progress they have made from the helpless condition the war left them in

shows what they are capable of, but the further progress they might have made had they let politics and politicians severely alone and attended strictly to the business of developing their country to the utmost is beyond computation. The progress they have made they owe, next to their own iron courage and resolution, to the capital furnished by the North and by Europe to enable them to restock their wasted farms, to erect factories and warehouses where none had been before, to begin the development of their mineral resources, to draw on the wealth of their forests, and especially to reconstruct and extend their railroad system, which of necessity must be the main factor in the upbuilding of their country. To politics and politicians, on the other hand, they owe the loss, or at least the postponement for all these years, of the progress that would have been made had not capital been scared off by unwise and unjust railroad legislation. Present indications are that in many of the States of the South wiser counsel has prevailed, and it is to be hoped that the proper encouragement will be given to capital to enter upon the work of developing the resources of the Southern country. To use a vulgarism, the question of development or no development is very much 'up to' the South.

"Within a few years the railroad system of the South will have to be doubled in extent, much of it double-tracked or even four-tracked, and sidings and laterals correspondingly extended to meet the demands of the immensely increased traffic that will be thrown upon it through the revival of active business throughout the country, the opening of the Panama Canal and the consummation of certain railroad developments which are now under consideration or actually being worked out. In other words, if the South, which should lead the rest of the country in commerce and industry, is to barely get the share of the tremendous increase in wealth the nation will gain during the next 10 years which her present position entitles her to, she will have to provide herself with 75,000 miles of additional railroad track, including about 25,000 miles of auxiliary track, at a total cost of about \$2,500,000,000, and she will have to bring her present railroads up to the standard at a cost of fully \$350,000,000 more. This capital she must bid for in an open market in which the rest of the world will be bidding actively against her, and she must go there with a reputation for fair treatment of the capital already invested in her railroads if she would secure it on reasonable terms.

"The attempt should be immediately abandoned, not by the South alone, but by other sections of the country also, to manage the railroads by means of commissions whose members appear to be carefully selected on account of their entire ignorance of railroad affairs. They know so little about the duties of their offices that they become fairly swamped by the mass of unfamiliar work that is thrust upon them, and the result is that they make some ridiculous rulings. Take the celebrated case of the Railroad Commission of Texas for an example. During the year ending June 30, 1908, the railroads of that State, according to the estimates of the commissioners themselves, earned something like \$12,750,000 less than in the year ending June 30, 1907, yet in spite of this heavy falling off the commission cheerfully ordered them to spend \$44,000,000 on new equipment within a short period of time, and haughtily refused to listen to arguments showing that the companies could not afford to obey the order. It is this kind of treatment, added to the charges of overcapitalization and excessive rates, which are so recklessly hurled at the railroads, that make it so difficult to raise

money on railroad security, thereby defeating the very object for which these things are said and done; that is to say, if that object is to reduce railroad rates and not to give a little cheap notoriety to some ambitious politician. For the railroads willingly reduce rates as often as they can reduce the cost in equal proportion; but this can be done only by improving the property and equipment, and such work calls for the raising of capital. Hence if capital is shy, as it ever has been regarding investment, the rates must be kept up unless the road is to be forced into the hands of a receiver.

"No public body, State or National, would make rates as low as the railroads themselves are compelled to do by the exigencies of their business. They are subject to a law far more effective in its operation than any that States or commissions can impose. This is the era of competitive railroad betterment; the era of competitive railroad construction is long past. Scores of millions, hundreds of millions even, have been expended on betterments during the past 12 or 15 years, all excessive capitalization having been wiped out in the process. Today the railroads are undercapitalized rather than overcapitalized, enormous betterment expenditures having been for years charged against income, the aggregate far exceeding the amount charged against capital. Competition for business is as fierce as ever, but it is carried along different lines—by means of bettering the service and lowering the rate and the ton-mile cost instead of by secret rebates and all the rest of the cut-throat devices of the past. During the 25 years since the consolidation of railroads into large systems began to be effected on a grand scale the average rate charged for moving a ton of freight one mile over the railroads of the South has been reduced more than 120 per cent. On the traffic of the year 1908 this would amount to something like \$200,000,000, while on the traffic of 1907 it would amount to more than \$65,000,000 additional. All that is necessary to secure the lowest rates is to stop nagging and keep the field open to all."

#### WEST VIRGINIA PROSPECTS.

##### Indications of Return to Steady Development.

[Special Cor. Manufacturers' Record.]  
Charleston, W. Va., April 10.

That West Virginia is to return within the next few months to the status of its development of the decade ending two years ago is the belief of many who are interested in the coal, oil and timber products of this State. They feel certain that as soon as the tariff tinkering is over and the labor difficulties are settled the country in general will be more prosperous, and that this State will share that prosperity to an extent as great as any other State.

That a change for the better has already taken place is clearly shown by the records in the office of the Secretary of State. These books show that during March 94 charters were issued to new companies, with a total capital stock of \$24,149,500. Of these companies, 69 were resident, with a total capital stock of \$9,129,500, while 25 were non-resident, with a total capital stock of \$15,020,000. In addition to this, a number of corporations chartered in other States were admitted to transact business in this State. And these companies were not chartered simply to sell stock. Some of them no doubt were, but in many cases a large amount of the capital stock had been paid in, while in some of them it was all in the treasury.

The non-resident companies are located principally in Western Pennsylvania and Chicago, with two or three having headquarters in Baltimore. Some of them will operate in West Virginia and have West

Virginians among their stockholders. The largest capital stock was that of the Isabella-Connellyville Coke Co. of Uniontown, Pa., with \$7,000,000, and it will operate in the Connellsville region.

But the resident concerns are the ones in which West Virginians are most interested, as they will principally operate and develop in this State. These companies range from the ordinary moving picture show company, with a capital stock of \$1000, to large coal and lumber concerns with a capital stock of \$2,500,000. These 69 companies will perform and develop in various lines, but the most attention is to be paid to the development of coal, oil and timber lands. And, judging by the charters, the greatest development of new territory under them is to be along the Norfolk & Western Railroad and its side lines, along the new Virginian Railway, and in the Coal River section near Charleston. The two largest resident concerns chartered, the Crescent Coal & Land Co. with \$2,500,000 and the Coal River Land Co. with \$2,000,000, both have their principal offices in this city.

But the northern section of the State is not far behind, as more than half of the resident concerns chartered have headquarters in that part. Just at this particular time more attention is being given there to oil and gas territory than anything else, because of the great excitement in the new Shinnston field in Harrison county. But taking it all in all, the entire State is ready to return to the prosperous times of a few years ago whenever the demand is sufficient. And that the demand is soon expected to come is shown by the movements of capitalists and developers, who are busy making preparations.

JOHN C. BOND.

#### Abilene Building.

[Special Cor. Manufacturers' Record.]  
Abilene, Texas, April 6.

At the annual meeting of the Abilene Twenty-five Thousand Club the secretary's report showed that during the past 12 months many new buildings have been secured for the city, notably among them a \$100,000 hotel, a library costing \$25,000, a \$25,000 candy factory, a mattress and bedding factory, a \$15,000 weather bureau building and roundhouse and machine shop of the Abilene & Southern Railroad. Bonds were voted for a \$40,000 high-school building; a movement was started for a \$125,000 cotton mill; subscriptions were raised for the Christian College, and a bonus was raised to secure the Baptist sanitarium. The officers for the new year are: Messrs. Morgan Weaver, president; W. A. Minser, vice-president; O. P. Thomas, secretary, and J. O. Shelton, treasurer.

#### Factories Wanted at DeValls Bluff.

Endeavors are being made to induce manufacturers to locate at DeValls Bluff, Ark., in the heart of a hardwood belt and affording transportation by rail and water. It is especially desired that manufacturers investigate the advantages for plants to produce pearl buttons, excelsior, furniture, barrels, handles, etc. For information address Eugene Sangford, secretary of the DeValls Bluff Industrial Club.

#### Paint Manufacturers Seeking Agents.

One of the largest and best-known paint manufacturing companies is seeking to make arrangements for representation in the South, and invites correspondence. This company manufactures paints for protecting corrugated iron and structural steel, steel water pipe and submerged steel and other metal work. Address "Paint," care of MANUFACTURERS' RECORD, 52 Broadway, New York.

#### SAPULPA: 18,000 CITIZENS.

##### Results of a Few Years' Efforts in an Oklahoma Community.

[Special Cor. Manufacturers' Record.]  
Sapulpa, Okla., April 3.

Sapulpa, a progressive and wide-awake town with a population of 18,000, is advancing rapidly in company with other places in Oklahoma. Indeed, it is remarkable how quickly these industrial and commercial centers spring up, deserve recognition and go right ahead in building up and creating trade throughout the State. Sapulpa, in the center of the great Glenn oil pool region, is a division point for three lines of the Frisco Railway system, the county-seat of Creek county, and is surrounded by a fine agricultural region, growing anything that is grown in the Southwestern country. It has all the resources and advantages for building up into a great industrial and commercial center.

It has 30 blocks of business houses, four banks with a million dollars on deposit, a railway pay-roll of 125,000 monthly, a \$300,000 packing-house plant, five miles of paved streets, an electric-light and power plant, an electric street railway and oil field interurban, water-works system and a modern and extensive sewer system owned and controlled by the city. These are a few of the enterprises which have been started in the past two or three years. Sapulpa is only six years old, but an enterprising, progressive and thrifty town, where every shoulder is put to the wheels of progress, with a determination to build wisely but well. The industries already in operation include a large oil refinery, cotton compresses, brick plants, cotton gins and ice plants. Work will soon be under way on a \$300,000 packing plant. The Sapulpa Interurban Railway Co. recently awarded a contract for the overhead copper, necessary engines and generators and steel bridge for Polecat Creek, and all overhead material for the erection of the line from Sapulpa via Keifer to Glenn pool. The Bovaird Supply Co. of Sapulpa and Independence, Kans., has secured additional ground, making 83 feet frontage on Main street in this city, in which it will immediately erect a two-story brick store-room and office building at a cost of some \$50,000 or more. Plans have been drawn and sites selected for the erection of a \$15,000 City Hall and fire station. Work is now under way by the American Paying Co. on its 40-block contract of asphalt paving recently awarded. One of the most significant measures adopted by the city is that every year there shall be spent money in beautifying streets, parks and outlying districts, and for sewer extensions and water supply, giving Sapulpa such hygienic and sanitary conditions as will ensure health and freedom from any prevailing bad influences. Mr. R. B. Dingman, president of the Commercial Club, said:

"We are building a city on the best plans known to municipal government. Every citizen is a hearty co-operator, and is vitally interested in every public measure. We have no laggards in our municipal make-up. Every man does his part, and does it well, realizing that by a concrete force in our city building much can be accomplished. With our public schools, churches, libraries and such other institutions for the moral and educational uplift of our people, we look forward to a city which eventually will command the admiration of all people.

"We want 10,000 more people to make this their home in the next two years, and in order to get these people we realize the fact that we must build a city which will not only attract people, but keep them.

ALEXANDER HELPER.



## Substantial Bases of San Antonio's Growth.

[Special Correspondence Manufacturers' Record.]

San Antonio, Texas, April 10.

Three steel buildings on the "sky-scraper" order are the visible signs of the new era upon which this delightful old capital of the Southwest has now entered. Two of these are hotels and the other an office building. One of the hotels, the St. Anthony, built by two local cattlemen, was finished in January at a cost of more than \$500,000, and under the management of the Swarengens, father and son, who are Northern hotel men of much experience, has added greatly to the attractiveness of San Antonio as a stopping place for through tourists as well as those whose main objective point was San Antonio. The other hotel, also the outcome of local enterprise, largely directed by the energy of a resident real-estate operator named L. J. Hart, is approaching completion, at a cost of nearly \$1,000,000. The completed hotel would do honor to any metropolis, and as the one under way will be equally imposing architecturally and elegant in appointment as well as considerably larger, San Antonio will be equipped with hotels to a degree not surpassed by any city of its size in the country. For, in addition to these new ones, there is the historic old Menger, enlarged and adapted to present requirements, and the hotel at the sulphur wells, besides half-dozen or more less pretentious ones, meeting the varying requirements of the constantly increasing throng of visitors to this most charming of winter resorts.

The Gibbs office building, the third of San Antonio's steel fireproof structures, is well on toward completion, and when finished, at a cost of some \$300,000, will be one of the most complete in detail as well as handsome architecturally to be found in the South. It has a facing of Carthage (Mo.) stone to the second floor, and the upper seven are of terra-cotta. The handsome lobby and the corridors are all wainscoted with Kennesaw Mountain (Ga.) marble, and the floors are of tile and concrete. Refrigerated water from an artesian well on the premises and a vacuum system of cleaning are features indicating how up to date the tenant's comfort and conveniences will be. Col. C. C. Gibbs, land commissioner of the Southern Pacific Railroad, is the enterprising San Antonian who is making this notable improvement.

While these are the most conspicuous physical developments that have been brought about in San Antonio within the recent past, there is evidence of enterprise and growth in many other directions. The streets are being better paved; numerous apartment-houses have been constructed; new stores and office buildings have been put up; there has been a great increase in the building of new residences, of types from the humble dwelling to the stately palace, and on all hands there is evidenced an activity and a hustle that give color to the predictions of the loyal San Antonian—and that means substantially the entire citizenship—that within 10 years there will be a population here of 250,000 souls.

A recent directory census is the basis for a claim of 105,000 population today. The foundations for the belief in such a rapid growth during the 10 years to come are laid in the marvelous development now under way in all the territory to the Rio Grande, and in the fact of the prestige San Antonio has achieved as not only the unchallenged metropolis of the Southwest, but as a city of rare individuality and subtle charm. San Antonio's climate is unsurpassed in winter time, and the summer heat is not oppressive. Her parks

and groves, with their wealth of sub-tropical verdure; her winding river and its many bridges; the 200 miles of perfect roads that radiate from the city in all directions; the historic Alamo and the picturesque missions and cathedral—all provide an atmosphere distinctly her own. Since the days of American occupation San Antonio has been headquarters for the cattlemen of the Southwest, even those whose holdings have been hundreds of miles away, for here have been the schools, the churches and the social life. And in the social life no small part has been played by the military post, for Fort Sam Houston is one of the most important in the United States, and in its development the Government has made an investment of somewhere near \$4,000,000. With its 200 buildings, its population of from 3000 to 5000 and its payroll of nearly \$2,000,000 a year, the post is likewise an important adjunct to the commercial life of the city.

"cattle barons" of this section. The man with the plow is now taking the place of the man with the broncho. The 20 acres that had been set aside for a long-horn steer are now producing onions and other truck products at the rate of from \$200 to \$500 an acre per year. Lands which had a rating 10 years ago at \$2 an acre have now a maximum value of \$100 an acre or more. The surrounding country now has need of a metropolis, so that San Antonio is rapidly developing her commerce and manufacturing. Her many large wholesale houses are supplying the Southwestern trade, even reaching into Mexico; her department stores are to be duplicated only in the larger cities of the Union, and an industrial development has begun, represented now by some 200 factories, large and small, and destined to a steady increase—materially so in case of the predicted development of an oil field in this vicinity and the utilization of Texas lignite and the coal of the fields near Laredo.

The financial condition of the city is indicated by the increase of over \$6,000,000 in the deposits of San Antonio's

cotton, corn, alfalfa, hay and sorghum. According to the figures provided, cotton yields three-quarters to a bale to the acre; corn, 40 to 50 bushels; sorghum and hay, a bale to the acre, with two to four cuttings, and alfalfa, a bale to the acre, with five to seven cuttings. Truck farmers, raising vegetables in variety, clear from \$150 to \$300 an acre. Berries, melons, figs, oranges, lemons and grape fruit are being raised here as well, and the citrus-fruit industry is regarded as certain to develop into something of great importance.

Between San Antonio and the Rio Grande Valley is a section known as the artesian belt, and in this country a transformation is rapidly taking place from the cattle ranch to the irrigated farm, truck patch, orchard or vineyard. A remarkable flow of water from artesian wells is characteristic of a large territory here, and the activity in this section is one of the features of the great Texas developments today.

In addition to irrigation by artesian wells, it is the opinion of Government experts that there will some day be a comprehensive utilization of the rivers of Southwest Texas for irrigation purposes. W. T. Rockwell, irrigation expert of the Department of Agriculture, who has been stationed for some months at San Antonio by the Government, studying soil, crop and water conditions throughout Southwest Texas and helping gratis all farmers who desire his aid in the establishment and conduct of irrigation plants, told me he regarded it as certain that a vast extension of irrigated territory would occur in Texas when the subject was more thoroughly understood and all the possibilities realized. "There are 25,000,000 acres of land around and to the south of San Antonio—a section 200 miles square—every acre of which might be brought into the highest state of cultivation, for with artesian and other water enough could be secured to irrigate the entire section. At the same time a canal system could be built which would serve the additional purpose of carrying produce to the Gulf for shipment by sea to the consumers' markets.

"The whole matter of irrigation is new here, and is not yet thoroughly understood. The farmers are not getting the returns from irrigation that they will when they understand better. The water will be more scientifically utilized by people here later on, so that instead of irrigating 100 acres with a foot of water they will irrigate 200 or 300 acres. In California, where the annual rate for water is \$20 an acre, whereas it runs from \$2 to \$3 to \$12 in Texas, there is of necessity a much more scientific utilization of the water. I should say the cost of water must be increased here, but at the same time I think it inevitable that these Texas lands will become as valuable as those of California. Why shouldn't they, when truck growers are taking off \$200 an acre for cabbages, onions, beans, etc.—as much as the Californians average in oranges?"

Is it any wonder, with such a vista of bewildering possibilities as this, that San Antonio looks forward to a duplication here of the development Los Angeles has known? Or is it hard to understand what an extraordinary activity in railroad building is under way in this section, or how all this region is the theater of more projected lines than any similar area elsewhere on the globe? Were all these railroad plans to be carried to completion the territory around and to the south of San Antonio would be more thickly streaked with railroads than any part of Iowa or Illinois. Many of the projects that receive announcement may never get beyond the stage of the "paper" railroad, and some of the proposed lines are looked upon



OFFICE BUILDING FOR COL. C. C. GIBBS, SAN ANTONIO.

To all the other advantages which have made for the growth and development of the place, geographical position has borne and will continue to bear an important part. Houston is 225 miles away, Dallas and Fort Worth about 275, and El Paso is distant more than 600 miles. It is furthermore the nearest American city of importance to the City of Mexico, a fact of growing advantage as the development of Mexico increases and proceeds, for already the leading men of the sister republic regard San Antonio with friendly interest and as a place to which they can come and be at home.

Wherever there is an American city of 100,000 people, which is the product of 40 years of uninterrupted growth, there is good reason to assume that the groundwork has been substantially and permanently laid and that the things done will stimulate others to follow. The big fact behind the new growth of San Antonio is the tremendous agricultural development of the great Southwest, which up to a few years ago was utilized only as a grazing pasture for the countless herds of the

banks, bringing the total to over \$20,000,000.

The energy and spirit of the place are demonstrated in a movement to raise a fund of \$25,000 to advertise San Antonio's attractions throughout the land, and a systematic canvass has so energetically begun that already an important part of the fund has been subscribed.

San Antonio will be a large beneficiary of the development in the irrigated district of the lower Rio Grande. But remarkable as is the development there, it is of scarcely secondary importance as a factor in her growth to the agricultural development nearer home. Around San Antonio is a rich agricultural territory, with soil from two to three feet in depth. As the rainfall is here only 28 inches a year, on the average, many farmers scientifically and successfully engage in dry farming. A majority of the numerous truck growers here, however, irrigate their lands, using for the purpose artesian water, which is struck at from 700 to 1000 feet, with a flow sufficient from one well to irrigate 150 to 225 acres. Farm crops are mainly

by wisecracks as volunteer efforts to engage the attention of the larger railroad operators. But it would seem that the abundance of natural wealth here is drawing to Texas so many people that more railroads are vitally necessary to provide facilities for the increased traffic that is being so rapidly created. From an investigation of the situation it would seem that a major part of this activity is due to private enterprise, and that the people of Texas themselves, realizing the need of

that the less a man knows about the actual situation the more likely is he to rush into a new railroad project at the present time. Nevertheless, the development that has occurred and that is going on with something akin to the spirit of a full-fledged boom demands a very considerable increase in transportation facilities, and while local men are taking the initiative, there are instances of the established lines doing something in the way of extensions. St. Louis capital, as for some years past,

ance which past performances have led the business interests to fear from a Texas Legislature. Nothing was done in the way of drastic rate legislation, and on the whole there is a very general feeling of satisfaction over the Texas attitude of today. An interesting side light on the situation is furnished in the attitude of the Texas newspapers toward the railroads. Without any agreement, but acting as of one accord, the reputable newspapers of the State have ceased to print the amount asked for in damage suits against corporations or the amount awarded where verdicts are obtained. Thus, while the damage-suit industry yields a million dollars or more every year to the sharpers who indulge in the mulcting process, public sentiment is directed by the newspapers away from this species of hostility toward the railroads, instead of being encouraged.

ALBERT PHENIS.

#### NEW FERTILIZER MERGER.

##### J. P. Morgan & Co. Expected to Participate in Subscriptions to the Stock.

The interests which for several months have been engaged upon a plan to organize an independent fertilizer company have decided to adopt the name "United States Agricultural Corporation" for the combination, which is to include a number of Southern fertilizer industries. It is understood that the original plan, concerning which publication was made some time ago, has been changed in order to avoid legal complications and the title Independent Fertilizer Co. was laid aside for the new one here given.

It is further stated that J. P. Morgan & Co. of New York, who will act as fiscal agents for the corporation, will (upon completion of the organization and after payment being made to them by the subscribers as proposed) subscribe themselves for 10,000 shares of preferred stock and 10,000 shares of common stock, paying in cash therefor \$100 per share. The organizers must provide for common stock subscriptions (including that of J. P. Morgan & Co.) amounting to \$3,325,000; preferred stock subscriptions in the Kaliwerke Sollstedt, the Tennessee Copper Co., J. P. Morgan & Co. and fertilizer manufacturers amounting to \$3,200,000, and preferred stock subscriptions in cash (including J. P. Morgan & Co.) amounting to \$5,750,000, making a total of \$12,275,000.

It is further stated that the new combine upon beginning business will own the Kaliwerke Sollstedt, a German potash manufacturing corporation. It will also have a contract for the entire output of the Tennessee Copper Co.'s sulphuric-acid plant, besides distribution contracts with the various fertilizer manufacturers interested, to the minimum of 700,000 tons, besides a 10-year contract with J. P. Morgan & Co.

While the capital stock is expected to be \$50,000,000, consisting of \$25,000,000 of 7 per cent. cumulative preferred shares and an equal amount of common, the first issue necessary will be about \$3,325,000 of common and \$8,950,000 of preferred. Subscriptions for the preferred stock are expected to be fixed at par, of which 10 per cent. shall be payable on the date of subscription and 15 per cent. payable at monthly intervals beginning with August 1 next, but no subscription to be binding until \$5,750,000 of preferred stock has been subscribed for in cash. Dividends on the preferred are to date from January 1, 1910, although the directors may declare out of surplus a dividend for 1909.

Concerning the foregoing reported organization plans J. P. Morgan & Co. telegraphs the MANUFACTURERS' RECORD that "no details settled as yet." It is under-

stood that several weeks at least will be required to put the plan fully in shape.

In the MANUFACTURERS' RECORD of January 14 appeared an article concerning the new combine, outlining its extent and stating that about 40 companies from Maryland to Florida, besides several in the West, had given options on their establishments. The combined output of these plants was estimated at least 1,000,000 tons of fertilizer a year, although if all came in which were expected to participate the output might reach 2,000,000 tons.

As previously mentioned, this company was the outgrowth of action by the State of Georgia to prevent vegetation from being destroyed by the sulphur fumes from the smelting plants of the Tennessee copper district. In consequence of this, the Tennessee Copper Co. and the Ducktown Copper, Sulphur & Iron Co., which were affected by the action of Georgia, found a process to utilize these fumes in the production of sulphuric acid in great quantities, the total estimated at about 300,000 tons per year. Being largely used in the manufacture of fertilizer, this large output of acid was sought by representatives of the Independent Fertilizer Manufacturers' Association, and this resulted in steps to form the company.

The names of Waldemar Schmidtman of Germany, who is referred to as the "potash king," and T. C. Meadows, general manager of the Buffalo (N. Y.) Fertilizer Co., have been prominently mentioned in connection with the new organization, and it has been expected that the former would occupy the post of president and the latter as general manager, although it is not known that these have been agreed upon in the new concern.

#### B. F. Avery & Sons' New Plant.

Geo. C. Avery, president of B. F. Avery & Sons, manufacturers of plows and cultivating implements, Louisville, Ky., has advised the MANUFACTURERS' RECORD as to his company's plans for a new plant in the suburbs of Louisville. Plans and specifications are being prepared by Geo. M. Brill, Marquette Building, Chicago, and they will probably be ready for bids in five or six weeks. The buildings will be generally one story high, but a few will be of more than one story, and will embrace a total area of more than 500,000 square feet of floor space. Enclosing walls will be of concrete or brick, with steel trusses, gravel roofing, etc. An automatic sprinkler system, an electric power driving equipment, boilers and engines for 700 horse-power and other machinery will be installed.

#### Irrigating Texas Lands.

The Fort Stockton Irrigated Lands Co. of Fort Stockton, Texas, which was recently incorporated with \$150,000 capital, has not yet completed its organization, but will immediately put under ditch 20,000 acres additional, accomplishing this by direct flow. This company will provide storage capacity by building two reservoirs large enough to contain sufficient water to cover an additional 20,000 acres. The company's selling offices are in the Fidelity Trust Building, Kansas City, Mo., with the Texas office at Fort Stockton. F. O. Ray of Fort Stockton and Colorado Springs, Col., is the engineer in charge.

#### Wants Plans for School Building.

Geo. J. Beyer, Mayor of Cullman, Ala., will receive plans until April 19 for school building to cost not more than \$10,000.

It is announced that the De Soto Naval Stores Co. of Lynchburg, Va., has completed the construction of its plant at Laurel, Miss., and will commence active operations at once.



HOTEL ST. ANTHONY, SAN ANTONIO.

railroads, are undertaking out of their own resources to construct connecting links or short lines to open promising territory. While some of the projects are in the nature of extensions of lines belonging to the great systems, the older roads are not the backers of the greater part of the lines projected, and it is pointed out that even if the temper of the Texas lawmakers were ever so friendly toward railroad corporations, the general conditions

is backing a number of new enterprises, and in one instance, at least, money to build an entirely new line has been secured in Holland. With the flowing tide of general prosperity which is deemed to be shortly due to set in, there is additional encouragement to investment in Texas enterprises in the fact that the temper of the Texas people, as reflected in the acts of the Legislature, is less disposed to oppressive measures as against corporations

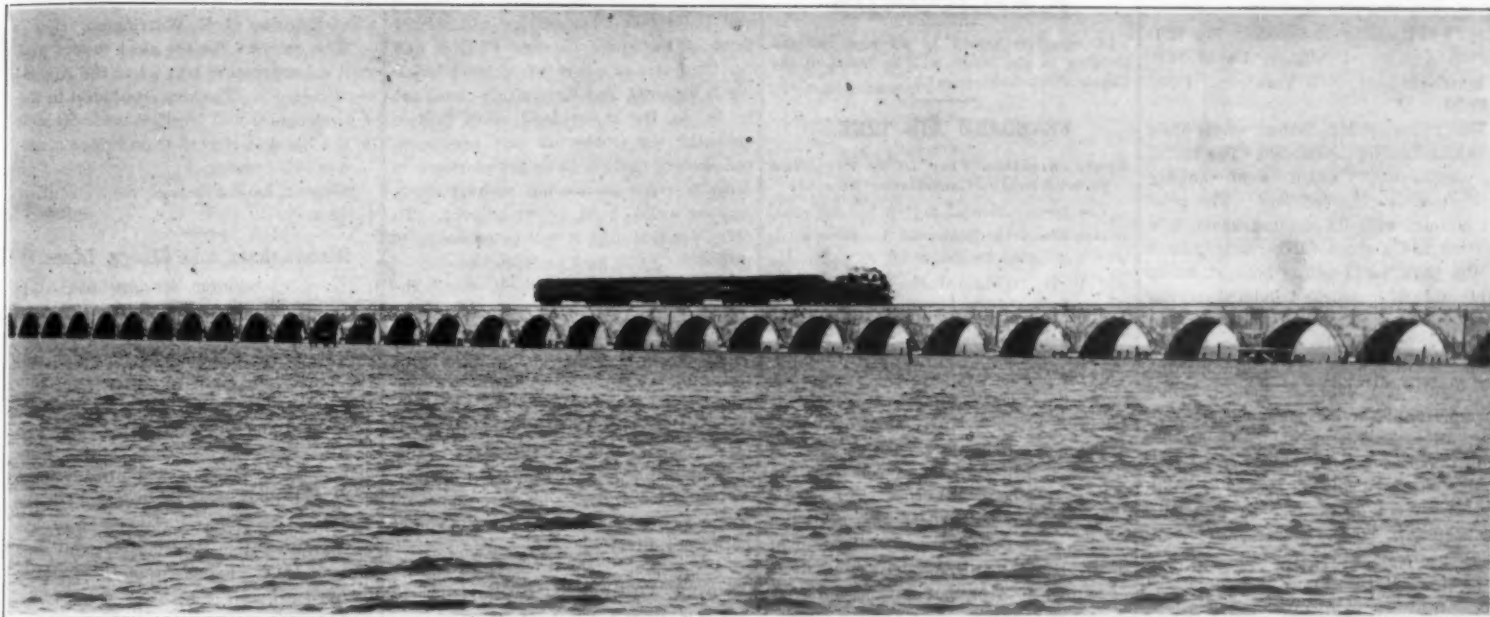


HOTEL FOR SAN ANTONIO HOTEL CO.

of the country during the past two years, the impossibility of securing capital for extensions which has confronted the railroads, and the existence of an embarrassing indebtedness in the way of outstanding notes will prevent the established lines from undertaking any extensive enterprises for some time to come. It is even declared by old-time railroad projectors

than for some time before. While not complete sanity was evidenced in the voice of the legislative majority at the present session, yet a strong organization of the business interests of the State and the presence as members of the Senate and House of a large number of substantial, responsible citizens, resulted in the repression of much of the wild-eyed intemper-





LONG KEY VIADUCT—FLORIDA EAST COAST RAILWAY.

The accompanying illustration shows the great concrete viaduct reaching from Long Key to Grassy Key, 2.7 miles, on the Key West extension of the Florida East Coast Railway, of which Henry M. Flagler is president. The arches are of 50 feet span each, and the railroad track on top of the viaduct is 31 feet above water level. The piers are 28 feet thick at the surface of the rock on which they rest, and at the point where the curve of the arch begins they are 20 feet 7 inches thick. From the water to the top of the arch is 25 feet, the remaining 6 feet being occupied by the crown of the arch, the ballast and the track. This extension, which has been built from Homestead, Fla., 28 miles south of Miami, extends across the marshes of the everglades and the Florida Keys as far as Knights Key dock, 478 miles south of Jacksonville. Trains have been running to this point for more than a year, connection being made there with steamers to Key West and Havana. Construction is under way to complete the line from that point to Key West along the keys, about 40 miles. The viaduct here pictured is built entirely of reinforced concrete, and a trip across it is almost like an ocean excursion, for on one side are the waters of the wide bay of Florida and on the other is the Atlantic Ocean. The view here shown is looking out to sea. Between Knights Key and Key West several viaducts will be built. Their appearance will be somewhat different because it has been decided, instead of building wholly of concrete, to use concrete piers, bridged by heavy steel work, and the contract for this girder and truss bridge work to the amount of 11,000 tons has just been awarded to the American Bridge Co. It is to be supplied immediately, and the extension is to be completed by February next. J. C. Meredith is the engineer in charge of construction. There will be three viaducts between Knights Key and Key West—one across Knights Key channel, another over Moser Key channel, each about a mile and a half long, and one across Bahia Honda Key channel, a little less than a mile long.

### BETTER MARKET FOR IRON.

Buyers Largely in the Majority at Birmingham.

[Special Cor. Manufacturers' Record.]

Birmingham, Ala., April 12.

A better market for iron has come. The buyers have been largely in the majority, and they took all they could get and cried for more. It was iron they wanted—iron in lots either small or large—and for any delivery it would be convenient for the sellers to make. More iron was sold the past week than in any preceding week this year. The price varied from a \$11 basis to a \$12 basis. There were buyers at every price named between the limits given. All the business offered was not accepted. If all offered had been accepted, very few would have cared for any more business the balance of this year. In order to present the situation as it is viewed from the standpoint of a producer, some remarks upon the situation by Capt. J. C. Maben, the president of the Sloss-Sheffield Company, are here repeated. He said that there is not only increased inquiry, but considerable tonnage has been booked during the week. The sales of his company he reported as totaling for the week fully 25,000 tons, and their lowest price was on a \$11.50 basis.

He added: "We think the price will advance, and on an inquiry for 5000 tons today we quoted \$12 as our price and we will not sell for any less, unless conditions change. That event we do not anticipate. Our present make, with five furnaces in blast, is about 31,000, and we have sold so far this month close to the output of the whole month. I believe that by the middle of April buyers will be paying from \$12 to \$12.50 for their iron. Our No. 3 furnace at North Birmingham is undergoing repairs that will cost us about \$200,000 and will not be making iron for a couple of months."

In all his conclusions perhaps the entire trade will not agree. His prognostications of the market are rarely in error.

The shipments continue to be very good, and there is comparatively few of the hold-back requests coming in. That leads to the conclusion that melters are running on on well-depleted stocks.

Scrap iron has participated in the better conditions of the market and prices have advanced 50 cents all along the line.

Papers looking to the final dismissal of the receiver of the Sheffield Coal & Iron Co. and the resumption of all operations of the company have been filed in the United States Court. They are in the shape of a decree rendered by the Federal Court approving the report of the special master who has been in charge of the reorganization work. The company has three stacks at Sheffield, which have been idle a long time. They will be placed in commission as quickly as possible. As soon as the necessary papers are delivered the reorganization of the company looking to immediate operations will be inaugurated. W. H. Hassinger will be the president of the reorganized company.

A report was current in iron circles late Saturday that the Tennessee Company had, in consequence of the great pressure brought to bear, finally determined to make this point a basing point for all iron and steel products. But the statement was denied by the vice-president and general manager. The project is not dead, however.

During the week just closed \$150,000 of the bonds of Birmingham were placed at \$104 and a fraction. The proceeds of these bonds will be expended for the benefit of the public schools. Before long another issue of \$200,000 will be offered, the proceeds to go for the same purpose. The American Radiator Co. decided to establish a branch of its business here, and has leased the site and plant of the Birmingham Pipe & Casting Co. and will put the plant in operation here as soon as it can be done.

There is a probability that another skyscraper will be added to those already built and in process of being erected

The Roden Coal Co., having a capital stock of \$150,000, has voted to increase it to \$300,000, the increase being divided into shares of \$100 each and not to be sold at less than par. Their mines are in the northern part of the county.

Articles of incorporation have been filed by the Birmingham Sanitary Bed & Manufacturing Co., which proposes to deal generally in beds and cots, with offices in Birmingham. The company is capitalized at \$5000, of which \$4000 has been paid in. The officers are: J. W. S. Jones, president and treasurer, and Wilson P. Jones, secretary.

The Merchants & Mechanics' Trust & Savings Bank will throw open its doors this week. Among the directors and stockholders are some of the leading financial lights of the city.

A good deal is made out of the shipment of about 50 cars of steel rails, and the inference is deduced that it is a new order not without influence in deciding the question of the shutting down of the steel mill. The truth is, it is an old order, and the rails will be used in the plans for the reaching over its own lines the city of Atlanta by the Louisville & Nashville Railroad. Some new orders have come in for the steel mill, and it has delayed the shutting down of the mill.

The soil-pipe men held a meeting here the past week for consultation and mutual benefit. Beyond making a closed alliance with each other, there was no significance attached to the gathering.

The board of revenue of this county will soon make contracts for the construction of some new roads and the improvement of some of the old ones, and in connection therewith will contract for the building of several bridges in the county, of which four will be steel. They will cost around \$20,000.

The formal opening of the railroad terminal was celebrated the past week and drew a large crowd from the surrounding country. The extent of the area covered

by the terminal amounts to more than 14 acres. The building in length is equal to that of two city blocks and the length of the subway is two city blocks. To get a proper idea of the extent and convenience of the terminal one must visit it and leisurely inspect it. J. M. K.

### A \$2,000,000 REFINERY.

Standard Oil Company of Louisiana To Build.

[Special Dispatch to Manufacturers' Record.]

New York, April 14.

The Standard Oil Co. of Louisiana has been organized with a capital of \$5,000,000. A refinery will be built at Baton Rouge, its extent and cost to be governed by conditions as they develop. The supply of crude is relied on from Louisiana fields. The officers of the Louisiana corporation are F. W. Weller of New York, president; P. S. Morris of New Orleans, vice-president; R. C. Bemiss of New Orleans, secretary and treasurer; Charles T. White, assistant secretary, and W. P. Howe of New York, assistant treasurer.

[Special Dispatch to Manufacturers' Record.]

New Orleans, La., April 13.

The charter of the Standard Oil Co. of Louisiana, subsidiary of the New Jersey corporation, was filed at Baton Rouge today, with \$5,000,000 capital. The officers of the Louisiana corporation are: F. W. Weller of New York, president; P. S. Morris of New Orleans, vice-president; R. C. Bemiss of New Orleans, secretary-treasurer; Charles T. White of New York, assistant secretary; W. P. Howe of New York, assistant treasurer. It is reported that a \$2,000,000 refinery will be erected at Baton Rouge on property recently purchased and that the headquarters of the company will be in New Orleans. Construction work on the refinery is expected to begin as soon as material can be delivered. ALBERT PHENIX.

## Literary Notes.

The New Building Estimator. By William Arthur. Publisher, David Williams Company, New York city. Price \$2.50.

Five years ago Mr. Arthur, whose home is at Omaha, Neb., published "The Building Estimator," which went quickly through three other editions. The present edition, with its changed name, is a revision and a much further enlargement of the work, with prices brought up to date and with much tabulated matter added. The contents are based upon a wide experience of the author as an estimator and a superintendent of construction, and upon data on quantities and costs pertaining to a great number of representative structures obtained from other skilled estimators. In the 437 pages estimating on practically all classes of buildings is covered. Examples of work with the materials, labor and methods of calculation are cited in full detail. All data is given careful analysis, is interspersed with advice as to quantities and allowances for each class of work, and with consideration of the conditions under which the work is done, making the data a practical working application in preparing and checking estimates on almost any given class of work. The reception given earlier editions of this pre-eminently practical work by the building trades, appraisers, insurance adjusters, railroad engineers and others as a convenient and serviceable reference book is the promise of greater usefulness than ever for Mr. Arthur's work.

## Engineering Work in Towns and Cities.

By Ernest McCullough, author of "Reinforced Concrete," "The Business of Contracting," "Engineering Contractors' Pocketbook," etc. Cloth, 6x9 inches; 510 pages; 68 tables; 112 diagrams and illustrations. Published by the Myron C. Clark Publishing Co., 355 Dearborn street, Chicago, Ill. Price \$3.

This volume is primarily written for two classes of officials in towns and cities having a population of less than 20,000. The first class includes those elected officials having no technical education, but who come into intimate relation with men having direct charge of engineering work. The other class is composed of engineers and surveyors holding the position of town or city engineer, and especially those with little or no experience in municipal engineering. This is the second edition of this work, and in its arrangement changes have been made so that each subject handled is practically complete for all classes of readers in that chapter devoted to it. The volume also contains chapters on systems of indexing and filing drawings and records, which will be found of much assistance to the new city engineer. Much new matter has been added to this edition, and the section of reinforced concrete has been entirely rewritten.

Who Makes What. A book of reference for buyers. Publisher, Daniel T. Mallett, 253 Broadway, New York. Price \$1.

This is one of the most complete publications of its kind. It is divided into five parts. One is a directory of the wholesale hardware houses and jobbers of the United States and Canada, with the history of each establishment, and this is followed by a directory of more than 13,000 manufacturers, with their names arranged alphabetically and geographically, an alphabetical directory of their products, a directory of important foreign merchants in all parts of the world furnished by American consuls, and a directory of the export commission houses and buyers of New York city.

## RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

## SEABOARD AIR LINE.

## Reorganization Plan to Be Prepared Immediately—Committee Named.

The preparation of a plan for the reorganization of the Seaboard Air Line Railway Co. is to be taken up immediately, and it is understood the committee in charge is unanimously agreed that the rehabilitation of the property can now be undertaken with particular advantage. This step has been decided upon after conferring with the receivers as to the condition of the property and also taking into consideration the prevailing rates of interest, which are now much lower than they were some months ago.

Mr. S. Davies Warfield, one of the receivers, says that this work will begin at once, and that a subcommittee has been appointed to represent various interests concerned. This includes Thomas J. Hayward of Baltimore, representing the Continental Trust Co. of Baltimore, which is trustee for the 4 per cent. bonds; James A. Blair of New York, representing the stock in the Seaboard Company; John Skelton Williams of Richmond, representing the old Seaboard Air Line stock; Ernst Thalman of New York, representing the collateral trust bonds, and Russell G. Fessenden of Boston, representing both bonds and stock. C. Sidney Shepard of New York, who is chairman of the general reorganization committee, is ex-officio chairman of the subcommittee, which latter will prepare a plan to be submitted to the full committee.

It is said that the property is at present in such financial and physical shape as to render unnecessary further protection of the courts.

## Several New Plans.

The Augusta, Gregory & Southern Railway Co. has been chartered at Augusta, Ark., to build a line from that town to Gregory, and thence to a connection with the Missouri & North Arkansas Railroad, 14 miles. It is estimated that the cost will be \$200,000, which is also the capital stock. The directors are J. L. Connor, T. E. Bonner, M. Gregory, R. K. Fitzhugh, Ed. Roddy, J. J. Story, T. F. Stanley, H. M. Wood and A. K. Campbell.

The West Point & Houston Railway Co. of West Point, Miss., is reported to have formed a preliminary organization and arrangements were begun to secure the charter to build a line operated by steam between the two points named. J. M. Hardison, president; W. E. Lagrone, secretary, and L. T. Carlisle, treasurer.

The Clinton Street Railway Co. of Clinton, Okla., has been chartered with \$50,000 capital to build a street railway in that town. The Clinton Railroad Construction Co., with \$10,000 capital, has also been chartered by the same people. The directors are C. W. Goodwin, R. O. Hunt, M. L. Holcombe, Charles H. Lamb, E. N. Tittsworth, A. N. Curry, E. A. Humphrey and B. A. Little, all of Clinton, and H. Smith of Arapahoe, Okla.

## New Station for Baltimore.

The Pennsylvania Railroad Co. and the city of Baltimore are negotiating over a proposed new union station. The railroad company proposes to make some changes of tracks in the present yard at Union Station, and if an agreement is reached with the City Council for these improvements, the erection of a new station and terminal is to be started within a year. The building and its furnishings will cost about \$1,250,000, and the entire work, it

is estimated, will cost between \$2,000,000 and \$3,000,000. The station will occupy most of the space between Charles and St. Paul streets where the present building is situated, and the waiting-rooms are to be on the street level, with bridges spanning the tracks, so that passengers can descend therefrom to any platform in order to reach trains, but without crossing the track level as at present. To carry out this plan it will be necessary to widen the yards and to extend several of the highway bridges which cross the stream and the yards on each side of the station. Two or three years will probably be necessary to complete the work when the plans are approved by the City Council. They have already been accepted by the local commission for the improvement of railroad facilities in Baltimore, which is composed of several prominent citizens, including the Mayor, who were appointed a year ago to study the subject and confer with the railway company.

## New Equipment, Rails, Etc.

The Abilene & Southern Railroad, it is reported, has ordered 2000 tons of rails from the Ensley plant of the Tennessee Coal, Iron & Railroad Co. for immediate shipment.

The New Orleans & Northeastern Railroad, the Alabama & Vicksburg and the Vicksburg, Shreveport & Pacific railways are reported in the market for steel rails.

The Carolina, Clinchfield & Ohio Railway, it is reported, has placed an order for 5000 tons of heavy sections of structural steel.

The Marshall & East Texas Railway is reported to have ordered from the American Car & Foundry Co. one passenger coach and one combination mail, passenger and baggage car.

The Florida East Coast Railway is reported to have ordered 11,000 tons of girder and truss-bridge work from the American Bridge Co. for the Key West extension.

The Norfolk City & Suburban Railway, Norfolk, Va., is reported in the market for 58-pound rails, besides other material, for an extension of about one mile.

The St. Louis & San Francisco Railroad Co. has bought for its Texas lines 25 baggage cars, 6 baggage and mail cars, 37 passenger cars and 4 cafe observation cars. These cars are valued, respectively, at \$7981, \$9565, \$11,827 and \$17,950 each.

The Baldwin Locomotive Works is completing for the Southern Pacific system two Mallet compound locomotives, which are said to be of greater size and power than any railroad engines heretofore built. Each weighs 300 tons, including the tenders; the weight of the engine alone is 215 tons. It is said, however, that the Santa Fe system is having built at the same works four locomotives, which, with tenders, will weigh 320 tons each.

## Kentucky River High Bridge.

Official information about the new high bridge over the Kentucky River on the Queen & Crescent Route has been received by the MANUFACTURERS' RECORD as follows:

"The present old bridge is the oldest cantilever bridge in the United States. It was built in 1876, and at the time was considered one of the most notable structures in the world. It crosses the canyon of the Kentucky River at a height of nearly 300 feet.

"The old bridge was single track. The new bridge will be built for double track, but for the present only one track will be laid.

"The old masonry piers will be increased in height about 14 feet with concrete masonry. The new masonry will amount to 2300 cubic yards. This work

will be done by the railroad's forces under Chief Engineer H. E. Warrington.

"The contract for the steel towers and steel superstructure was let to the American Bridge Co. The amount of steel in the superstructure will be 6500 tons. It will be the heaviest riveted truss bridge structure in this country.

"Gustav Lindenthal is the consulting engineer."

## Birmingham and Mulga Lines.

Henry M. Atkinson, president of the Atlanta, Birmingham & Atlantic Railway, and now one of the receivers for that property, is reported as saying that preparations are being made to resume construction on the line from Pelham to Birmingham, Ala., and also on the line from Pelham via Bessemer to Mulga mines. Considerable construction has already been done on both of these extensions. On the line into Birmingham right of way has been granted from Pelham to a point near Grace's Gap, while most of the work to be resumed will consist of tracklaying. The distance is 19 miles, and at present the trains are using the track of the Louisville & Nashville Railroad. Most of the work on the Mulga branch will also be tracklaying. The receivers' report estimates that the cost from Pelham to Birmingham will be \$620,763, and the Mulga extension \$341,000. Mr. Atkinson is further reported as saying that the receivers have closed successful negotiations for sufficient funds to complete this work.

## Brady to a Gulf Port.

According to a report from Texas, interests associated with B. F. Yoakum contemplate the construction of a railroad about 300 miles long and the establishment of a new deep-water harbor on the Texas coast at a point 250 or 300 miles south of Galveston. This line, it is said, will run from Brady, Texas, a terminus of the St. Louis & San Francisco Railroad, of which Mr. Yoakum is chairman of the executive committee, to Kingsville, on the St. Louis, Brownsville & Mexico Railway, and thence southeast to Padre Island, about 45 or 50 miles from Kingsville. It appears that no steps have yet been taken to organize a company to build such a through line, but it may be noted that there are several enterprises started looking to the construction of comparatively short roads in counties between the points named, which might be of use in building up a longer railway.

## Frisco Soon to Enter New Orleans.

W. C. Nixon, vice-president and general manager of the St. Louis & San Francisco Railroad, is quoted in a report from Houston, Texas, as saying that an agreement has been closed with the Louisiana Railway & Navigation Co. for the use of its tracks from Baton Rouge to New Orleans, La., and that Frisco trains will be running into the latter city by June 1. He is also reported as saying that a deal has been closed at Baton Rouge to purchase right of way for one mile to build a necessary connection, and this is now being constructed, while an incline at the river will also be speedily erected. The Frisco trains will be ferried across the Mississippi River at that point. This will permit the operation of through trains between New Orleans and Houston, as well as other points.

## Atlanta Street Railways.

The Georgia Railway & Electric Co., which owns and operates street railways in Atlanta, Ga., has filed a mortgage for \$20,000,000 to secure the proposed bond issue of that amount which was voted in January by the stockholders. Of that sum \$1,250,000 are to be issued immediately to refund part of the debt and to acquire some new property. It is surmised that



the company will immediately extend the line on West Peachtree street. It is said that, while \$10,000,000 of the total bond issue will be reserved for refunding purposes, the rest will be issued as required from time to time for extensions and improvements. The bonds are to mature in 40 years, and they bear 5 per cent. interest.

#### Florida East Coast Election.

The Florida East Coast Railway Co. at the annual meeting of directors made the following official changes: H. M. Flagler (formerly president), chairman of the board; J. R. Parrott (formerly vice-president), president; R. W. Parsons (formerly second vice-president), assistant to president. The other officers elected are: J. P. Beckwith, vice-president, in charge of operating and traffic; J. E. Ingraham, vice-president, in charge of lands and industries; W. H. Beardsley, treasurer; J. C. Salter, secretary; H. S. Jenison, assistant secretary; W. H. Chambers, comptroller.

#### A West Virginia Enterprise.

A letter to the MANUFACTURERS' RECORD confirms the report that Mr. John J. Cornwell of Romney, W. Va., is interested in a project to build a railroad from that town to Petersburg, W. Va. The proposed line will connect with the South Branch Railroad of the Baltimore & Ohio system at Romney, and will follow the South Branch Valley for 39 miles to Petersburg, which is the county-seat of Grant county. The president of the railroad company is W. B. Cornwell of Fairmont, W. Va., and the secretary is Raymond Abbaticchio, also of Fairmont.

#### South Brunswick Railway.

The South Brunswick Railway Co. has been chartered in Virginia to build a line from a point on the Southern Railway between Freeman and Lawrenceville, Va., in Brunswick county, to a point on the Seaboard Air Line between Gaston and Garysburg, N. C., about 25 miles; capital from \$10,000 to \$50,000; headquarters at the building of the Camp Manufacturing Co. in Isle of Wight county; postoffice, Franklin, Va. The incorporators are P. D. Camp, president; J. L. Camp, vice-president; R. J. Camp, secretary and treasurer; J. C. Williams, general superintendent; R. G. Camp, J. E. Camp and P. R. Camp, all of Franklin, Va.

#### Cost of Extension Estimated.

H. M. Atkinson and P. S. Arkwright, receivers of the Alabama Terminal Co. and of the Atlanta, Birmingham & Atlantic Railway, have filed a report showing that to complete the Birmingham extension from Pelham to Birmingham, Ala., will cost \$620,763. This will be about 20 miles long. To complete the line from Pelham via Bessemer to Mulga will cost \$341,000. There is already on hand about \$50,000 worth of material, which is deducted from the estimate. Mr. Atkinson is reported as saying that construction will be resumed immediately.

#### Port Bolivar Open for Traffic.

A dispatch from Bolivar, Texas, says that official announcement has been made by the Santa Fe system that the new deep-water port at Bolivar is open for traffic. Bolivar is the export terminal of the Gulf & Interstate Railway in the system, which line connects Galveston with Beaumont, trains being ferried across the bay from Bolivar to Galveston. The channel has a depth of 25 feet.

#### Tulsa to Sapulpa.

The Oklahoma Union Traction Co. has been chartered at Guthrie to build an interurban railway from Tulsa to Sapulpa,

Okl., about 20 miles. It is estimated that the line will cost \$300,000; capital \$100,000. The incorporators are Albert A. Small, Cicero L. Holland, Edgar T. Tucker, Grant C. Stebbins and Samuel A. Orcutt, all of Tulsa, Okla.

#### Railroad Notes.

W. L. Ross has been elected vice-president in charge of traffic on the Toledo, St. Louis & Western Railroad and the Chicago & Alton Railroad. E. S. Wortham has been appointed assistant to the vice-president.

The Southern Pacific Railroad Co. at its annual meeting at Louisville, Ky., formally authorized the proposed issue of stock and bonds. There will be \$100,000,000 of common stock and \$82,000,000 of 4 per cent. 20-year bonds.

William J. Oliver of Knoxville, Tenn., has been awarded a contract to revise grades and build second track on the Chicago & Alton Railroad between Bloomington and Atlanta, Ill., 19 miles, and between Springfield and Nilewood, Ill., 27 miles.

Arthur E. Stilwell, president of the Kansas City, Mexico & Orient Railway is reported as saying that trains will be running from Kansas City to San Angelo, Texas, by August 1, and he expects the Pacific coast extension to be completed by next year.

The Nashville Interurban Railroad is preparing to open its electric line between Nashville and Franklin, Tenn., about 17 miles. The double-track cars have been received, and it is expected that a regular schedule will be established between April 15 and 20.

The MANUFACTURERS' RECORD is informed that steps will be immediately taken to resume work on the St. Louis, Oklahoma & Texas Railway, and an engineering party will take the field to locate the line for about 100 miles northwest and south of Mt. Vernon, Texas. M. J. Smith of McAlester, Okla., is the engineer, and Mr. R. C. Sturgeon of that office will have charge of the field corps.

The Young Men's Business League of Waco, Texas, which has just been organized, has, it is reported, adopted resolutions to advocate the construction of a railway between Waco and Port Arthur, Texas, the line also to continue westward from Waco to the western part of the State. Albert Clifton was elected president and William L. Prather secretary.

### PHOSPHATE

#### To Develop Leatherwood Mines.

The Independent Phosphate Co. of Columbia, Tenn., is reported as making arrangements to develop the Leatherwood phosphate mines in Maury and Hickman counties, which it recently acquired. A railroad is under construction from Franklin, Tenn., to the property, which is expected to be completed about November 1, affording transportation facilities. Officers of the company are J. C. Reed of Nashville, president; O. L. Dortch, manager, and W. D. Rhea of Columbia, secretary.

#### The American Cyanamid Co.

The American Cyanamid Co., Isaac W. Read, secretary, 100 Broadway, New York, expects to locate a plant in Baltimore. It will probably invest about \$30,000 for facilities to convert free lime out of cyanamid into sulphate of lime, and this initial investment may be largely increased in the future. The company's \$2,000,000 cyanamid plant at Niagara Falls, Canada, is now about completed, and is preparing to ship its product. This is cyanamid, the nitrogenous fertilizer derived from the atmosphere.

### TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS' RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

#### Roanoke Mills Mfg. Corporation.

The Roanoke Mills Mfg. Corporation of Roanoke, Va., will acquire the Roanoke Cotton Mills Co. property, including site of 9½ acres, two-story 47x196-foot main building, 57x200-foot carding and spinning room, 57x50-foot picker-room, 250-horsepower engine, two electric motors of 30 and 40 horse-power, 4000 spindles and accompanying machinery, etc., for the daily production of 4000 pounds of cotton yarns. This company was mentioned in the MANUFACTURERS' RECORD of April 1 as incorporated, and it will be capitalized as follows: First mortgage bonds \$50,000, preferred stock \$25,000 and common stock \$150,000. Its officers are: E. Lowndes Rhett, president; Alexander F. Chrichton, vice-president; Abbott B. Rhett, secretary-treasurer. The directors are: E. Lowndes Rhett of Rhett Bros., 15 William street, New York; Abbott B. Rhett of the American Tobacco Co., New York; Alexander Chrichton, treasurer of the Planet Mills Manufacturing Co., Brooklyn, N. Y., and Wilmington, Del.; Wm. B. Rhett, vice-president and secretary of the P. Lorillard Company, Jersey City, N. J., and Christopher B. Wyatt of Wyatt, Parks & Dawes, 2 Rector street, New York. The Roanoke Mills Mfg. Corporation has offices temporarily at Room 735, No. 15 William street, New York.

#### The Manchester Cotton Mills.

The Manchester Cotton Mills, Manchester, Ga., has awarded contracts for the equipment of the power plant for its 20,000-spindle and 500-loom plant, previously detailed. Fuller E. Callaway of Lagrange, Ga., is the company's president, and advises the MANUFACTURERS' RECORD that the contracts were awarded as follows: Hooven-Owens-Rentschler Company, Hamilton, Ohio, engines of about 1000 horse-power; Harrisburg Foundry & Machine Co., high-speed electric engine; General Electric Co., Schenectady, N. Y., generators and dynamos; Dean Bros.' Steam Pump Works, Indianapolis, Ind., pumping and condensing machinery, and R. D. Cole Manufacturing Co., Newnan, Ga., boilers, tanks, etc.

#### The Alden Branch Mill.

The Alden Knitting Mill of New Orleans, La., has awarded contract to the Rubush-Dabbs Construction Co. of Meridian, Miss., for the erection of the buildings for its recently announced branch mill at Meridian. These buildings will include the main structure, of brick, two stories high and 52x123 feet, and the boiler and dyehouse, of iron, 40x80 feet; all on concrete foundations. P. J. Krouse of Meridian prepared the plans.

This plant will be known as the Priscilla Mill, and will be capitalized at \$30,000. It will have 100 knitting machines, loopers, ribbers, sewing machines, dyeing and finishing equipment, etc., for producing seamless hosiery. It will be driven by electricity and employ 100 operatives.

#### Unity Mill No. 2.

The Unity Cotton Mills, Lagrange, Ga., has awarded contracts for the equipment of the power plant for its 10,000-spindle addition, previously detailed. Fuller E.

Callaway, treasurer of the company, advises the MANUFACTURERS' RECORD that the contracts were awarded as follows: Hooven-Owens-Rentschler Co., Hamilton, Ohio, engines of about 800 horse-power; Harrisburg Foundry & Machine Co., high-speed electric engine; General Electric Co., Schenectady, N. Y., generators and dynamos; Dean Bros.' Steam Pump Works, Indianapolis, Ind., pumping and condensing machinery, and R. D. Cole Manufacturing Co., Newnan, Ga., boilers, tanks, etc.

#### The Leeco Cotton Mill Co.

The Leeco Cotton Mill Co. has been organized and acquired the Clark Manufacturing Co. plant at Jonesboro, N. C. It contemplates increasing capacity one-third and adopting electricity for power. The company has 100 looms, for manufacturing drills. D. E. McIver of Sanford, N. C., is president; G. W. Huntley of Wadesboro, N. C., vice-president; J. R. Jones of Sanford, secretary-treasurer; John Kennedy of Jonesboro, superintendent.

#### Enlarging Walker County Mill.

The Walker County Hosiery Mill's addition at Lafayette, Ga., referred to last week, will be 50x8 feet in size, annexed to the main structure. It will cost about \$7500, and from \$12,000 to \$15,000 will be expended for installing new machinery to increase the company's present daily capacity of 600 dozen pairs of hose to 1000 dozen pairs. Adams & Schneider of Chattanooga, Tenn., have contract to erect the building.

#### The Pomona Mills.

The Pomona Mills of Greensboro, N. C., has been incorporated with a capital stock of \$750,000 by E. P. Wharton, J. E. Latham, T. A. Hunter, W. C. Boren and J. Van Lindley. Mr. Wharton and associates were mentioned last week as having purchased the claims against the Pomona Cotton Manufacturing Co., with the purpose of buying that property at the sale on April 27. The mill has 19,000 ring spindles and 330 narrow looms.

#### To Double Silk Mill.

The Hagerstown (Md.) Silk Co. will build an addition four stories high, 50x112 feet, and install 60 looms, thus doubling its capacity. This company manufactures silk ribbons, dyed and finished. It uses electric power.

The company will also install special silk machinery, electric motors and wiring, transmission equipment, etc., and will want this machinery.

#### The Eureka Cotton Mills.

The Eureka Cotton Mills of Chester, S. C., has awarded contract to J. A. Jones of Charlotte, N. C., for the erection of an addition. This company has also awarded contract for the machinery to be installed, the equipment to include 8000 spindles and 450 looms. It now operates 14,748 ring spindles on yarn production.

#### Wants Flannels and Yarns.

Ole Kravik, Jr., Marietta, Minn., wants quotations on flannels and yarns for glove manufacturing.

#### Wants to Buy Sheeting.

Jas. L. Jones, 414 North Fant street, Anderson, S. C., wants to buy bleached and unbleached 90-inch sheeting.

#### Textile Notes.

Dr. Sheeple and associates of Cleburne, Texas, are planning the organization of a \$300,000 cotton-mill company.

The Martin Hosiery Mill of Raleigh, N. C., will not triple its capacity, as a recent report stated. It has added some 240-

needle knitting machines, will add a few 170-needle machines and probably a dye-house.

John W. Cannon of Concord, N. C., has purchased the Middle Georgia Cotton Mills of Eatonton, Ga., and is reported as to enlarge and operate the plant. The latter has 6000 spindles and 215 looms for manufacturing cotton duck.

The Bonham (Texas) Cotton Mill Co., reported in December as to expend \$30,000 for additional machinery, will build an addition. It now has 12,000 ring spindles, 252 broad looms, 100 narrow looms, etc., manufacturing sheetings.

Efforts are being made to organize a company with a capital stock of \$1,000,000 for the construction of a cotton mill to be operated by electricity from the Central Georgia Power Co.'s water-power-electric plant, now under construction. Several members of the company named have offered to subscribe to stock in the new enterprise. The Central Georgia Power Co. has its general offices in the Grand Building, Macon, Ga.

## COTTONSEED

### Cotton Oil Mill Supplies.

Mr. J. T. Walker of Walker & Roney, Memphis, Tenn., a member of the committee of arrangements for the annual meeting in that city May 18-20 of the Interstate Cottonseed Crushers' Association, writes to the MANUFACTURERS' RECORD that the committee will furnish free of charge to all manufacturers and dealers in supplies or machinery for cottonseed-oil mills space in good buildings for the exhibit of anything they may wish to show the 400 or 500 cotton oil mill men who will attend the convention. At the disposal of the committee have been placed the Tri-State fair grounds, where there are a great many large buildings. The committee is anxious to have as complete exhibition as possible of oil-mill machinery, brooms, bags, ties, etc.

### Oil Mill Projected.

The incorporation of the Mound Bayou Oil Mill & Manufacturing Co. of Mound Bayou, Miss., is announced, with a capital stock of \$100,000, for the purpose of establishing a cottonseed-oil mill, the construction of which, it is said, has already begun. The company will erect a frame structure 50x344 feet for storing cottonseed hulls, and a brick building 50x200 feet, which will be equipped with oil-mill machinery, engine, boiler, etc.

### \$490,000 for Good Roads.

Last week the Sullivan County Court of Blountville, Tenn., voted to issue bonds to the extent of \$200,000 for extending the highways of the county, and this amount will be added to the \$100,000 voted several months ago. John H. Caldwell of Bristol, Tenn., was re-elected chairman of the county roads commission. In Alamance county, North Carolina, there will be constructed 46 miles of macadam road, and the contract was awarded on April 5 to R. L. Peters of Knoxville, Tenn. This contract amounts to \$190,000.

The Appalachian Engineering Association, with headquarters at Morgantown, W. Va., has published as Bulletin No. 21 the interesting paper presented at the Morgantown meeting in February by President E. A. Schubert of Roanoke, Va., on the iron-ore resources of the world, with sidelights as to the development of the iron industry in the future.

The coal production of Hopkins county, Kentucky, for 1908, according to statistics prepared by Chief Mine Inspector C. B. Norwood, amounted to 1,760,253 tons.

## MINING

### Pocket Coal District.

During the last three or four years considerable exploitation and development work has been done on the coal deposits in Lee county, Virginia, in the vicinity of Pennington Gap, in what is known as the Pocket coal district, and as a result a large amount of valuable information concerning the geologic position and distribution of the various workable coal beds in this region has become available. In the early summer of 1908 C. A. Fisher of the United States Geological Survey made a brief examination of these deposits, and he has embodied the results of that work, together with information furnished by persons interested in the development of the mines, in an advance chapter of the Survey's Bulletin 341, published as Bulletin 341-C. This report is now ready for distribution.

The district derives its name from the fact that it lies in a "pocket" or topographic depression, surrounded on three sides by high ridges. It is about nine miles long and four to five miles wide, and includes about 40 square miles. Within this area there are 12 known workable coal beds and two more which may possibly be workable. They have a combined thickness of about 54 feet and occur within a stratigraphic interval of about 2000 feet.

Coal has been mined from small banks in this district for many years to supply a small local demand, but wood has been so plentiful and so cheap here that the native population has had little incentive to develop coal for domestic fuel. The building of railroad lines into the district has, however, led to increased interest in the coal deposits.

Mr. Fisher reports the results of studies of the physical and chemical properties of the coals and expresses the opinion that coke of average quality could be made from most of the workable beds.

### South Hill Coal & Coke Co.

The MANUFACTURERS' RECORD is informed that formal organization of the South Hill Coal & Coke Co., 219 Hale street, Charleston, W. Va., has been effected by the election of the following officers: W. B. Matthews, president; W. G. Morse, vice-president; Thomas Linville, secretary; A. G. Clay, assistant secretary, and H. J. Walker, treasurer, all of Charleston. The company has leased 700 acres of Kanawha splint and Cedar Grove coal lands near Lewiston, about 13 miles east of Charleston, on the main line of the Chesapeake & Ohio Railway, and will develop mines to the capacity of 1500 tons per day. The total estimated cost of the proposed plant is \$35,000, for which the necessary machinery has been purchased. Mr. Logan Linville of Charleston is the general manager of the company and engineer in charge of construction.

### The Jed Company's Improvements.

The Jed Coal & Coke Co. will soon complete its tippie and additional miners' cottages, which have been under construction. The company has in position a complete modern plant at its West Virginia mines, and is increasing its output of Pocahontas coal to some extent. Its main offices are at 915 Whitehall Building, New York.

### Mining Notes.

Coal loading in the Kanawha field for March amounted to 479,690 tons.

It is announced that the Panama Railway Commission has awarded a contract to William C. Atwater & Co. of New York city for 400,000 tons of Pocahontas coal, which will be handled by the Norfolk & Western Railway.

## MECHANICAL

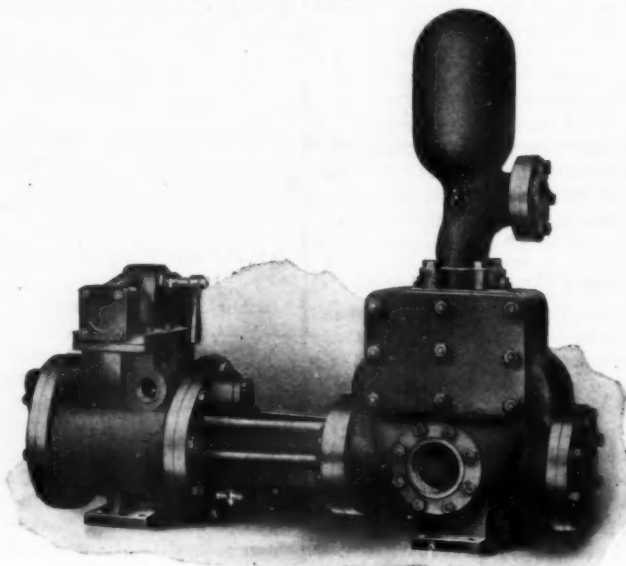
### Single Horizontal Piston Pressure Pump.

An accompanying engraving shows the salient features of a new line of pumps offered to meet the demand for a moderate cost machine of simple construction which will stand that wear and tear of rough usage and which at the same time can be operated without skilled attention.

It is a strong, plain pump, designed particularly to overcome the objectionable

and at the same time they can be quickly removed for inspection or removal.

Great care has been taken to make this pump thoroughly applicable to the varied conditions that continually confront users of this class of machinery, and the favor with which it has been received, particularly by miners and contractors, tells its own convincing story. This line of pumps, denominated type "M" pumps, is built in a great variety of sizes, and prompt shipments can be made, which is a point very much to the purpose in modern manufacturing service.



NEW SINGLE HORIZONTAL PISTON PRESSURE PUMP.

features common to most pumps of this class, and results uniformly show that it has successfully accomplished this purpose. It is thoroughly adapted for rough mining service, for contractors' use, for boiler feeding or for any pressure work up to 200 pounds per square inch working water pressure.

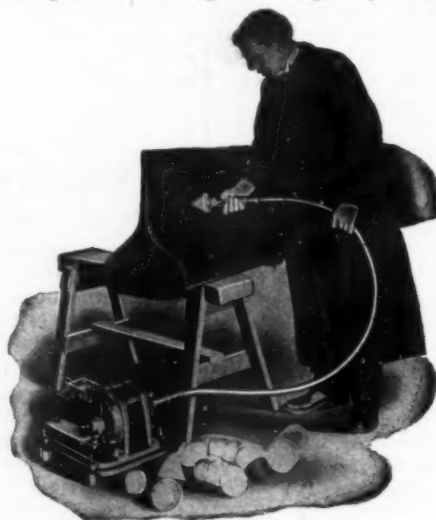
The valve gear is wholly enclosed, and there are no exposed working parts that can be tampered with or become broken by accident. The pump can be put into any kind of unskilled hands, will stand all sorts of abuse and neglect and still keep

These pumps are built by the Blake & Knowles Steam Pump Works of New York and Boston.

### A Flexible Shaft Sander.

A flexible shaft sander recently placed on the market by the Coates Clipper Manufacturing Co. of Worcester, Mass., has met with success, especially in the manufacture of small water craft, being particularly adapted for sanding the curving bottoms of boats and canoes.

This sander, illustrated herewith, has been adopted by the Seth Thomas Clock



A FLEXIBLE SHAFT SANDER.

on doing its work without giving trouble.

Suction openings are cast on both sides of the pump cylinder, and the discharge outlet can be faced in four different directions for convenience in making pipe connections. The steam and water cylinders can be turned end for end on the center-piece connection so as to bring the hand-holed and pipe connections into the most accessible position when the pump is used in cramped situations.

All of the water valves and valve seats are securely locked into place so that they cannot get adrift under any conditions,

Co. of Waterbury, Conn., for obtaining the proper polish desired on the high-grade woods used in the construction of its clocks.

The construction of this outfit is very simple. A one-half-horse-power motor, built by the General Electric Co. of Schenectady, N. Y., is fastened on a small truck supported at each corner by swivel rollers. At one end of the motor shaft is fastened a Coates unit link flexible shaft running inside a steel spring, this, in turn, being covered with leather, making a neat, durable and flexible shaft, and one that

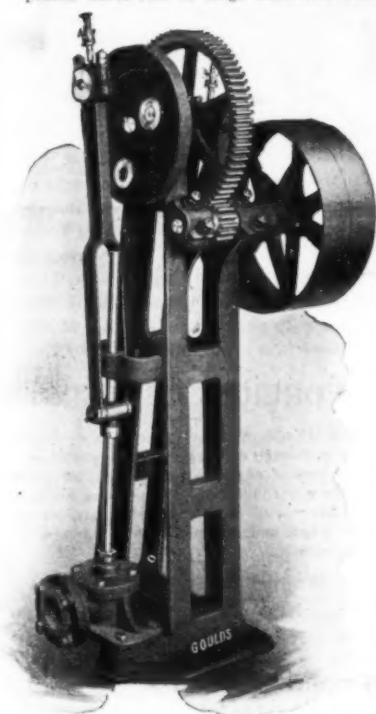


can be handled easily. At the end of the flexible shaft is fastened a cone with a steel center, the base being made of hardwood. The body is made of felt, over which is slipped sandpaper cones held in place by a steel garter. These sandpaper cones are inexpensive, and may be obtained in any grade, according to the degree of polish desired.

This little outfit is a veritable labor-saving device, and, being portable, can be easily moved from place to place, the result being that the operator can do better work in less time than with the usual methods.

#### Goulds Power Working Head.

With a view to supplying a demand for a low-priced first-class compact power-working head for operating single-acting deep-well cylinders in wells from 50 to 175 feet deep, the Goulds Manufacturing Co. of Seneca Falls, N. Y., has recently placed on the market a new type which contains many good features. In construction the machine is strong and substantial, owing to the entire frame being cast in one piece. The gear and crank plate are securely pressed and keyed on the main shaft. The gear and pinion are of charcoal iron, machine cut from the solid, and the main and pinion shaft run in large babbitted bear-



GOULDS POWER WORKING HEAD.

ings. The well cover is located in the base. It is arranged in such a manner that by taking out the bolts which secure it to the frame and disconnecting the well rod the entire working head can be moved back away from the well without disconnecting the pipe. The crank plate provides for an adjustable stroke by changing the crank-pin. The pitman is malleable iron, and the crosshead and guide rods are of forged steel. The polished well rod operates through a brass gland. All bearings are provided with oil cups, and are adjustable. The working head can be supplied with or without air chamber. The new head is illustrated herewith.

#### Generator Sets for Panama.

A shipment of unusual note has recently been made to the Isthmian Canal Commission, Isthmus of Panama. It consisted of seven two-and-one-half-kilowatt generator sets, the engines being built to meet the requirements of the I. C. C. Circular No. 472, Class 3, which called for them to be "built for high speed, self-oiling, and automatically governed, and to be able to control and also strong enough to withstand a change from no load to full load, to be

of sufficient capacity to drive the two-and-one-half-kilowatt dynamo at the proper speed when under full load and with initial pressure of 60 pounds per square inch," etc.

The Fort Wayne Electric Works of Fort Wayne, Ind., furnished and shipped to the Detroit (Mich.) plant of the American Blower Co. the seven type M. L. frame D 110-volt generators for mounting upon the extended sub-bases of the seven 3 1/4 x 3

of this type clutch is the fact that the press can be stopped or started while the feed is on its point of dwell, which is not the case where the conventional positive press clutch is used, due to the fact that presses so equipped stop on the top center while the feed is at its highest speed, and must necessarily stop and start with a certain amount of shock, which has a tendency to strain the feed mechanism. In



GENERATOR SETS FOR PANAMA.

A B C vertical enclosed self-oiling type "A" engines.

The accompanying illustration was produced from a photograph of these outfits taken in the paint shop of the American Blower Co.

The combined sets were tested and inspected by a Government inspector and readily approved.

The feature that particularly interests the officials is the fact that these engines will operate continuously at high speeds for long periods without attention. This is rendered possible by the patented system of lubrication employed. At the base of the engine is located a small pump which delivers to each moving part a copious stream of oil. Every frictional surface literally runs on oil, there being no possible contact between metals.

The engine will run successfully without injury anywhere that a steam pipe can be carried, and while fully enclosed, the loosening of a single milled hand nut removes the enclosing panel and gives free access to all working parts.

#### Bliss Automatic Double-Slide Press.

An accompanying illustration is a view of an automatic double-slide press recently designed and built by the E. W. Bliss Company, No. 3 Adams street, Brooklyn, N. Y. The press was designed to produce rapidly and accurately from ribbon stock small sheet-steel and sheet-brass articles, the manufacture of which requires a series of operations. The machine produces 180 finished blanks per minute, requiring a total of 1460 operations per minute. The press performs eight operations at each stroke of the slide (after the first seven strokes), a finished blank being produced at each stroke. The elimination of all intermediate handlings, the saving in labor and shop room, and the entire absence of any danger to the hands of the operator are special features of this press. The top and bottom slides are operated by toggles driven by one shaft, the operation of this shaft being controlled by a friction clutch, by which means the press at any point of the stroke is always under the instant control of the operator. Another additional advantage

cases where ribbon stock is being fed this also causes some slip of the ribbon, with a consequent irregularity in the feeding.

The top and bottom toggle connections are each independently adjustable, enabling the changing of the timing of the operations. In this way the press may be adjusted so that either the top or bottom slide may finish its stroke first and then dwell until the other slide continuing

vice, insuring uniform tension on the stock, regardless of the amount of scrap on the reel.

The dies are each in a separate and independent sub-press, and can readily be removed and replaced any number of times without the slightest danger of shearing the most delicate dies.

The stock used being in ribbons or strips of suitable width, is used as a feeding medium, and in this way a very high rate of speed is attained. The stock passing from left to right the entire width of the press is controlled by a set of rolls each side of the press.

In the case of work requiring drawing operations, the drawing is done previous to the blank being taken out of the ribbon, thus allowing the metal to contract in every direction. To provide for this contraction and the consequent change in centers, the dies are arranged in the independent sub-presses, which permit of adjusting the distance between the centers of dies, to match the distorted spacings due to the drawing operations. The blank being cut out of the ribbon after the drawing operations is again forced back into the scrap, by which it is carried along to subsequent operations.

With this ribbon feed very accurate work can be produced, and owing to the fact that the work is always under absolute and instant control, the press can be operated at from three to four times the speed possible when the blank is loose and advanced step by step by a finger or carry feed.

#### Importance of a Modern Expansion Bolt.

By H. C. SKINNER.

Expansion bolts in their many styles and sizes are used wherever there are "things to fasten" to brick, stone, marble, concrete, tile or slate. They are made in every conceivable size, from one-eighth to two-inch diameters for use variously with



BLISS AUTOMATIC DOUBLE-SLIDE PRESS.

performs the operation, the movement of the slides in relation to each other depending on the nature of the operation to be performed. The feed is actuated by a six-point Geneva stop-motion, which feeds 120 degrees and provides an ideal motion for a feed of this class. There is provided for the stock a reel with friction hold-back, and for the scrap a reel with geared drive arranged with a compensating de-

wood screws, machine screws, lag screws and machine bolts. Herewith is illustrated the Standard Star screw anchor.

The Star screw anchor (Fig. 1) is made in one piece of lead composition metal to fit any ordinary wood screw from a No. 5 to a No. 24. To use, drill hole; insert expansion shield (Fig. 2); put screw (Fig. 1) through material to be fastened into inserted expansion shield (Fig. 2); then

fasten tight and the positive inner end expansion shown by Fig. 3 occurs and one has a fastening which will hold indefinitely. The inner end expansion insures against chipping or defacing the outside surface matter. The fastening is more ornamental than otherwise.

Identically the same simple principle of expansion characterizes the Standard Star two-piece lag screw type, which has lately found such cordial Government approval. This latter style is designed for use with all coach or lag screws from five-thirtyseconds to one-half inch diameters, and desired lengths, and may be had in all sizes in malleable iron; in the smaller sizes (up to one-half inch) in lead composition metal. Both the foregoing types are very largely specified on United States Government contract work.

Then one should know about machine expansion bolts, which work on a some-

illary hook 50 feet per minute; bridge travel, 200 feet per minute; trolley travel, 120 feet per minute; motor, main hoist 20 horse-power; motor, auxiliary hoist, 15 horse-power; bridge travel, 15 horse-power; trolley travel, 3½ horse-power.

The motors are Westinghouse type "K," working at 550 volts D. C. The controllers are types G-3 and V of the Electric Controller & Manufacturing Co.

On the pilasters on both sides of the shop are brackets or pin bearings for the support of small capacity wall cranes. By using the electric crane to place a wall crane on any pilaster where needed at a moment's notice a small number of wall cranes will render good service over the entire shop.

As ordinarily constructed, the operator's cage is placed below the crane at one side of the girder near the runway. On this crane such an arrangement would inter-



IMPORTANCE OF A MODERN EXPANSION BOLT.

what different principles, and which for some special purposes are preferred to the other and more popular styles above described. Machine expansion bolts are of two kinds—single wedge and double wedge. Either will fit any standard machine bolt or screw from three-sixteenths to two inches diameters, any length. The single wedge produces an inside lateral expansion rather similar in effect to the styles above shown, but operating on the principle of an engaging wedge-shaped nut, which picks up thread of bolt and is thus drawn outward toward surface matter, operating as it does to spread inner sides of shield against sides of hole.

The double wedge also has the same inside engaging wedge-shaped nut, but in addition there is a similar wedge-shaped unthreaded collar on outer end of shield, over which sides of shield force themselves outward, producing a horizontal expansion.

Both of these two types, together with many other time and labor-saving specialties, such as Star toggle bolts for fastenings to tile, terra-cotta, hollow brick or metal lathing, Star cable dogs for supporting conduits and cable, and Star drills for brick and stone, are manufactured by the Star Expansion Bolt Co., Bayonne, N. J., which issues an interesting catalogue of its products.

#### Crane for Car Shop.

When designing, in 1909, the car repair shops of the Washington, Baltimore & Annapolis Electric Railway at Academy Junction, Md., the Roberts & Abbott Company of Cleveland, Ohio, the designing engineer, provided for the installation of an electric traveling crane to be used first in setting the new shop machinery and later to handle car bodies and heavy running-gear parts. The accompanying illustration affords a clear conception of this crane.

The crane supports one end of a car body by means of a yoke, the car having previously been placed with one truck standing on a small transfer table, so that on raising the car body the truck can be readily run out to one side, and, if desired, either into the blacksmith shop or into the tracks outside the building. The crane handles an armature by means of the main and auxiliary hoists.

The principal features of the crane are as follows: Girders, box; capacity, main hook 15 tons and auxiliary hook 6 tons; span, 42 feet; hoisting speed, main hook 13 feet per minute; hoisting speed, aux-

iliary hook 50 feet per minute; bridge travel, 200 feet per minute; trolley travel, 120 feet per minute; motor, main hoist 20 horse-power; motor, auxiliary hoist, 15 horse-power; bridge travel, 15 horse-power; trolley travel, 3½ horse-power.

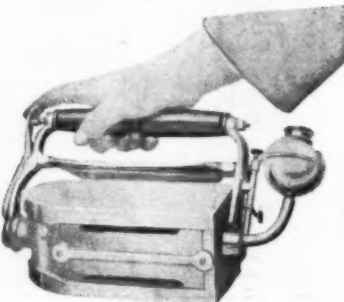
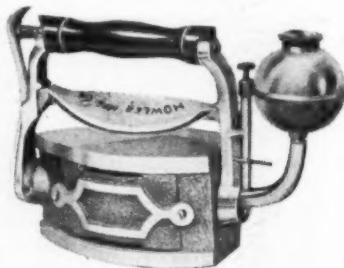
The transfer table, while of strength sufficient to sustain a completely equipped car when rolled across it, is required to move only the heavy trucks. The table is operated by hand power, the necessary travel being short.

Both crane and transfer table were designed, manufactured and erected by the Whiting Foundry Equipment Co. of Chicago.

The building is of reinforced concrete, constructed with brick curtain walls. Size of building is 256 feet 8 inches by 83 feet 7 inches, and the design is such that the lighting is exceptionally good. The heat-

ing is by fan system, with ducts under the floors, and automatic sprinklers provide fire protection.

These irons have been put to severe tests



SOUTHERN-MADE ALCOHOL UTILITIES.

company also makes the stoves in heavy galvanized finish for marine purposes, each stove having a guard rail.

The iron is made with a double face, and can be revolved by pressing a latch attached to the handle. The top heats, and as the side in use cools the iron is revolved, bringing the heated surface into use.

These irons have been put to severe tests

of doors as inside, enabling the housewife to do her ironing on the back porch or under the shade of the trees. (See four accompanying illustrations.)

#### Seeking Southern Representation.

The Alpha Slate Co. of Bangor, Pa., is planning to develop the sale of its structural and roofing slate products in the South, and is prepared to correspond rela-



SOUTHERN-MADE ALCOHOL UTILITIES.

tive to the establishment of agencies in the principal Southern cities. The company invites information relative to the advantages of Southern cities and correspondence from responsible parties who will consider accepting agencies, especially those prepared to establish yards and hold sufficient stock to supply their territory.

#### FOREIGN LETTERS

The MANUFACTURERS' RECORD is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. Some of these letters indicate the disposition of foreigners to buy American goods, and are therefore of interest to our readers.

#### Wanted for Italian Trade.

Canepa & Soci, via S. Giorgio No. 2, Genoa, Italy, writes the MANUFACTURERS' RECORD:

"At this time our attention is particularly directed to refined cotton oil in barrels, cotton in bales, wheat, bacon, lard, tallow, wax and all the natural American products and raw materials. We want the agency of good houses handling some of these articles and full particulars on the subject."

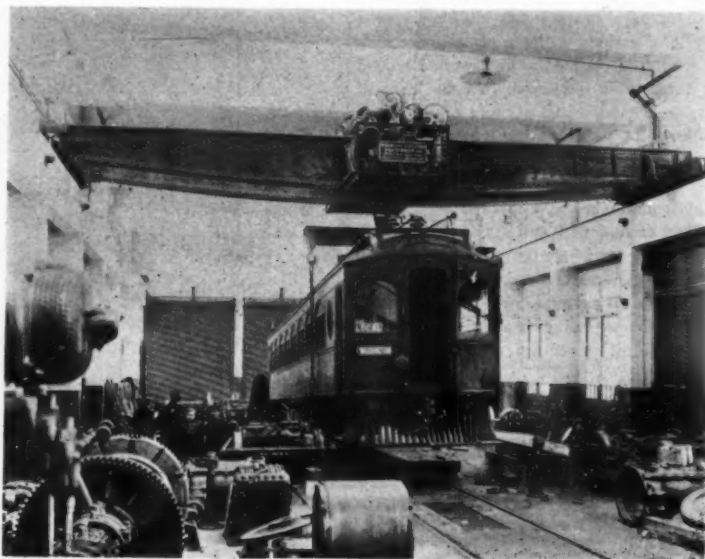
#### Ice and Shoe Machinery.

F. W. Holden, 347 George street, Sydney, Australia, writes the MANUFACTURERS' RECORD:

"We are looking for quotations on boot-making, ice and cold-storage machinery."

The MANUFACTURERS' RECORD is informed that the Jacksonville Tropical Steamship Co. will operate between Jacksonville, Fla.; Nassau, Havana, the Isle of Pines and Truxillo, Honduras. This line has just been started, its first ship having a full cargo. Direct steamer connection will be made with Baltimore, Philadelphia, New York and Boston. E. O. Painter is president; G. N. Crandell, vice-president; Frank Cartmel, secretary and treasurer; office at Jacksonville, Fla.

Announcement is made that the Merchants & Miners' Transportation Co. will start its new steamship line from Baltimore to Jacksonville about June 1.



CRANE FOR CAR SHOP.

ing is by fan system, with ducts under the floors, and automatic sprinklers provide fire protection.

#### Southern-Made Alcohol Utilities.

With the removal of the Government tax on industrial alcohol there arose a demand for different utilities, such as stoves, lamps and irons adapted to the use of this new fuel.

The Howler Manufacturing Co. of Montgomery, Ala., which had been conducting a series of experiments in alcohol-burning appliances, has developed the alcohol utilities illustrated herewith.

The company is offering a one and two-

by the manufacturers, and have proven satisfactory. They are easily operated, safe to handle, and can be heated to any temperature desired. The heat can be regulated by the use of a valve, which controls the flame. A patent device creates a perfect draft inside the body of the iron, thus preventing the smothering of the flame, and effectually prevents the flame from flashing out at the sides of the iron while in use, a common defect with self-heating irons.

The small tank or fuel reservoir holds two ounces of alcohol, and will burn one hour, costing a little over one cent an hour to operate. It may be used as well out



# Construction Department

## TO OUR READERS!

In order to understand and follow up properly the Construction Department items, please bear in mind the following statements:

### EXPLANATORY

The MANUFACTURERS' RECORD seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

In correspondence relating to matters reported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the MANUFACTURERS' RECORD.

### ADDRESS FULLY

To insure prompt delivery of communications about items reported in these columns, the name of one or more incorporators of a newly incorporated enterprise should be shown on the letter addressed to that town, or to the town of the individual sought, as may be shown in the item, as sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. This will help to insure prompt delivery of your communication, although it is inevitable that some failures on the part of the postal authorities to deliver mail to new concerns will occur.

### WRITE DIRECT

It is suggested to advertisers and readers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter reported is likely to receive quicker and surer attention than a mere circular.

## BRIDGES, CULVERTS, VIADUCTS

Ardmore, Okla.—Carter county will vote on issuance of \$200,000 bridge bonds. Address County Commissioners.

Asheville, N. C.—Special Bridge Committee will recommend to Buncombe County Commissioners construction of reinforced concrete bridge across French Broad River; structure to be 950 feet long, 105 feet above river, extend from Old Atkinson place to opposite quarry bluff, and cost \$100,000; general plans call for grading of Spring street and construction of several roads; second choice for location is from Park avenue to Tahkeostee place, in West Asheville, length of 320 feet and height of 41 feet, cost of steel construction being \$50,000; plans call for viaduct over Depot street to reach new roadway to be opened from Coker's pond to French Broad avenue, new roadway on west side of river, etc. These recommendations are in accordance with report submitted by Charles E. Waddell of Asheville, engineer. M. L. Reed is chairman of special sub-committee.

Calhoun, Ga.—Gordon County Commissioners, F. A. Rankin, chairman, recently noted to be considering bridge improvements, contemplate addition of stone or cement pier to 280-foot structure; from foundation to top, about 35 feet; approaches or abutments to be repaired; construction to be of cement or stone walls and earth; new floor; plans not prepared; estimated cost, \$3000.

Charlotte, N. C.—Mecklenburg County Commissioners, W. M. Long, chairman, decided to construct bridge across Catawba River at Rozzell's Ferry; to be of structural steel; 600 feet long; 27 feet above water; open roadway of 16 feet; old abutments and foundation work will be used; cost \$14,000 to \$18,000. (Mentioned in January.)

Conway, Ark.—Faulkner county will construct four steel bridges; J. A. Lea, County Judge.

Ellijay, Ga.—Roanoke Bridge Co., Roanoke, Va., has contract to construct steel bridge over Ellijay River; double-track roadway and two six-foot sidewalks; one span of 102 feet.

F. J. Fagan, Candler Bldg., Atlanta, Ga., is company's agent. (Recently mentioned.)

Ferguson, S. C.—Santee River Cypress Lumber Co. awarded contract to Foster-Creighton-Gould Company, Nashville, Tenn., for erection of substructure and superstructure of single-track railway bridge across Santee River. (Previously mentioned.)

Huntsville, Ala.—Converse Bridge Co., Chattanooga, Tenn., has contract to construct four steel bridges in Madison county, spanning streams that are crossed by recently improved roads; cost \$9000.

Graham, N. C.—Alamance county awarded contract for construction of 14 short-span reinforced concrete bridges to Eureka Building Block Co., Burlington, N. C., at \$19,136; county to furnish reinforcing material; R. L. Holt, Burlington, chairman Road Commission; Gilbert C. White, Durham, engineer. (Previously mentioned.)

Highbridge, Ky.—Cincinnati, New Orleans & Pacific Railway (Queen & Crescent Route) has completed plans for construction of riveted truss structure over Kentucky River to replace present cantilever bridge; to be built for double track, with but one track laid at present; piers to be increased in height about 14 feet with concrete masonry by railroad force under Chief Engineer H. E. Warrington, Cincinnati, Ohio; contract for steel towers and steel superstructure awarded to American Bridge Co., Hudson Terminal, 39 Church St., New York; amount of steel in superstructure, 6500 tons; Gustav Lindenthal, 45 Cedar St., New York, consulting engineer. (Previously noted.)

Kaufman, Texas.—Commissioners' Court awarded contracts for erection of 21 steel bridges in Kaufman county. Address County Commissioners.

Knoxville, Tenn.—City will have \$67,000 available for construction of Asylum avenue viaduct; Southern Railway and Louisville & Nashville Railway have each agreed to pay \$15,000; this added to \$50,000 bonds and \$2000 premium secured on them will amount to sum stated; John M. Brooks, Mayor; S. D. Newton, City Engineer. (Recently mentioned.)

Lian Creek, Mo.—Linn Creek Bridge Co., recently reported incorporated with \$12,000 capital stock by A. J. Watson and others, will construct bridge; wire suspension type; length of span, 555 feet; 12-foot roadway; 25-foot steel towers; steel I beams; tramway for conveyance of material, equipment for which is required; cost \$8000; T. S. Hart is engineer in charge. (See "Machinery Wanted.")

Magnolia, Miss.—Pike County Board of Supervisors will award contracts May 3 for construction of steel bridge across Bogue Chitto River at Holmesville, another near John Boyd's, and third near S. A. Dickey's place on Osyka and Chattawa road; W. C. Vaught, clerk. (See "Machinery Wanted.")

Murphy, N. C.—Cherokee County Commissioners awarded contract to Owego Bridge Co., Owego, N. Y., for construction of steel bridge over Hiwassee River; contract awarded through company's representative, C. W. Hodges, Greensboro, N. C., at \$8698, for bridge and approaches.

Nashville, Tenn.—Davidson County Court adopted \$250,000 bond issue for completing two Cumberland River bridges. Address County Commissioners.

Norfolk, Va.—City will construct reinforced concrete bridge; bids to be opened April 26. W. T. Brooke, City Engineer. (See "Machinery Wanted.")

Okemah, Okla.—Okfuskee county will vote June 11 on issuance of \$100,000 of bonds for construction of six steel bridges across North Canadian River and four across Deep Fork River. Address County Commissioners.

Paducah, Ky.—McCracken county will construct 420-foot bridge across Clark's River; to be concrete for 300 feet, with steel span of 120 feet, with concrete floor; also one concrete bridge across Perkins Creek, 90 feet long. Address Road Supervisor of McCracken county. (See "Machinery Wanted.")

Starke, Fla.—Bradford county awarded contract to Roanoke Bridge Co., Roanoke, Va., at \$11,550 for construction of steel bridge over New River, four miles from Lake Butler; length 1225 feet; C. L. Peek, chairman Board of County Commissioners. (Recently mentioned.)

Tampa, Fla.—City will vote May 18 on issuance of \$170,000 of bonds for steel bridge, abutments, etc., at Lafayette street, accord-

ing to plans and specifications furnished by Mr. Hildreth. Address The Mayor. (Recently mentioned. See "Road and Street Improvements.")

## CANNING AND PACKING PLANTS

Acworth, Ga.—Acworth Canning Co. organized; Jas. D. Gay, secretary; will establish cannery. (See "Machinery Wanted.")

Center, Texas.—Shelby County Canning Factory organized with \$7500 capital stock; J. O. Cooper, president; George F. Oliver, vice-president; L. H. Palmer, secretary and general manager.

Florence, Ala.—Jackson & Sheppard are interested in establishment of cannery.

Gregory, Texas.—Charles P. Taft contemplates establishment of packing plant with capacity of 100 beeves daily.

Joplin, Mo.—Colonial Canning Co., recently reported incorporated with \$15,000 capital stock, will establish proposed factory for canned vegetables, pickles and preserves; is constructing fireproof brick building to cost \$7000; A. Levering Smith, Cunningham Bldg., second vice-president and general manager. (See "Machinery Wanted.")

Natchez, Miss.—Natchez Canning & Manufacturing Co. incorporated with \$10,000 capital stock by Sam Zerkowsky, R. Veiner and others.

Ochelata, Okla.—Western Canning & Pickle Co. incorporated with \$5000 capital stock by J. Nathan Long, Ella Long, both of Tulsa, Okla., and Elba Bryan, Porter, Okla.

Portsmouth, Va.—Harris Rowe Company, Port Norfolk, P. O. Portsmouth, Va., has purchased belt line site and will establish packing and pickling plant.

Rockdale, Texas.—Company is being organized to establish cannery; E. A. Camp can probably give information.

## CLAYWORKING PLANTS

Campville, Fla.—Bricks.—Campville Brick Co. will rebuild plant reported burned; loss \$10,000.

Piedmont, W. Va.—Martin J. Tierney has purchased plant of Piedmont Brick & Coal Co. and will operate.

Slidell, La.—Bricks.—Slidell Brick Works Co. has reorganized and will, after repairs are made, resume operations.

St. Joseph, La.—Bricks.—Schneider Bros. will increase capacity of brick plant.

St. Joseph, Mo.—Brick, Sewer Pipe, etc.—Phoenix Brick & Construction Co. will increase capacity of brick plant and add manufacture of fireproofing and sewer pipe; cost of improvements, \$100,000.

Waynesville, N. C.—Bricks.—Waynesville Brick & Tile Co. organized by W. C. Garrison, J. Clarence Miller and W. E. Miller; will establish plant with capacity of 20,000 bricks daily.

Whitesville, Ky.—Brick and Tile.—John Birch and others contemplate establishment of brick and tile plant.

## COAL MINES AND COKE OVENS

Birmingham, Ala.—Roden Coal Co. will increase capital stock from \$150,000 to \$300,000.

Boone County, W. Va.—Spruce River Coal Co. incorporated with \$20,000 capital stock by T. M. Taggart, L. P. Shintz, F. E. Taggart, all of Masillon, Ohio, and others.

Dawson, Okla.—Tate Brady, owner Brady Hotel, Tulsa, Okla., purchased coal mines near Dawson.

El Paso, Texas.—Santa Fe Fuel Co. incorporated with \$20,000 capital stock by Fred J. Werkerle, James Connor and Vernon E. Ware.

Fayette County, W. Va.—Fire Creek Collieries Co. incorporated with \$150,000 capital stock by P. M. Sharpless, T. L. Eyes, Thomas S. Butler, all of West Chester, Pa.

Huntington, W. Va.—Beaver Creek Fuel Co. incorporated with \$10,000 capital stock by M. P. Wiseman, Paul W. Scott, E. E. Williams and others.

Lewistown, W. Va.—South Hill Coal & Coke Co., recently reported incorporated (under Charleston, W. Va.), has completed organization; W. B. Mathews, president; W. G. Morse, vice-president; Thos. Linville, secretary; H. J. Walker, treasurer; Logan Linville, general manager and constructing engineer in charge; main office, 219 Hale street, Charleston; will operate 700 acres leased coal; contemplated capacity, 1500 tons daily.

Memphis, Tenn.—Independent Coal Co. in-

corporated by W. W. Johnson, J. R. Menasco, C. C. Warren and others.

Rockdale, Texas.—R. C. Wallis has purchased 45 acres of coal land and will shortly begin sinking shaft.

## CONCRETE AND CEMENT PLANTS

Harriman, Tenn.—Southern Construction Co. incorporated with \$50,000 capital stock by W. H. Grannis and others; will manufacture cement blocks. (See "Miscellaneous Enterprises.")

## COTTON COMPRESSES AND GINS

Bristol, R. F. D. from Crisp, Texas.—Bristol Farmers' Gin Co. incorporated with \$7000 capital stock by T. B. Truitt, P. R. Hedey, W. D. Sims and others.

Bryan, Texas.—J. O. Chance will rebuild cotton gin and cotton-house reported burned; loss \$8000.

Charleston, S. C.—Rodgers, McCabe & Co., Norfolk, Va., recently noted planning organization of company with \$100,000 capital, contemplate erection of cotton plant at Charleston; plant to consist of warehouses, sheds and compress; plans not matured.

Charleston, S. C.—Charleston Terminal Co. will erect cotton compress; capacity, 200 bales daily.

Columbus, Miss.—S. J. Webb of Webb Cotton Compress Co., Minden, La., will erect \$50,000 cotton compress at Columbus.

Cotton Plant, Ark.—Company organized with R. H. James, president; A. C. Carter, vice-president; W. T. Trice, secretary and treasurer; will establish cotton compress; machinery purchased.

Electra, Texas.—Electra Gin Co., D. T. Case, manager, recently noted to rebuild cotton gin, will erect \$3000 building; cost of machinery \$5000. (See "Machinery Wanted.")

Farley, Ala.—J. H. Miller will rebuild cotton gin recently reported burned; will erect fireproof building; cost \$7500; will install three-gin outfit and gas-producer engine at cost of \$7200.

Flatonla, Texas.—Paulus & Rhodes will establish cotton gin and electric-light plant.

Montgomery, Ala.—Farmers' Compress & Warehouse Co. organized with \$25,000 capital stock; C. L. Gay, president and general manager; F. McLean, vice-president. (Recently mentioned.)

Palmer, Texas.—Farmers' Gin Co. incorporated by J. A. Jackson, H. W. Hamm, C. E. Harper and others; will erect building and install cotton gin.

Pine Bluff, Ark.—Farmers' Gin & Compress Co. incorporated with \$10,000 capital stock; F. H. Walker, president; Edgar J. Hahn, vice-president; James McNulty, secretary and treasurer.

Quannah, Texas.—Quannah Compress Co. organized with \$30,000 capital stock to establish cotton compress.

Runge, Texas.—Runge Cotton Oil Co. incorporated with \$60,000 capital stock by E. G. Gillett, C. F. Stevens and W. M. Hebero.

## COTTONSEED-OIL MILLS

Mound Bayou, Miss.—Mound Bayou Oil Mill & Manufacturing Co. incorporated with \$100,000 capital stock; to establish cotton-oil mill; will erect frame structure 50x380 feet for storing cottonseed and hulls and brick building 60x230 feet for boiler, engine and oil machinery; construction has begun; capacity, 50 tons; machinery is being selected; officers are J. T. Montgomery, chairman; A. A. Casey, secretary; John W. Francis, treasurer; Chas. Banks, manager.

Pearsall, Texas.—Frio Cotton Oil Co. has increased capital stock from \$40,000 to \$50,000.

Pflugerville, Texas.—Pflugerville Cottonseed Oil Co., recently reported incorporated with \$40,000 capital stock, will establish two-press or 40-ton mill; main building to be of brick; seedhouse, hullhouse, etc., frame with metal roof; contract to be awarded; machinery purchased; A. T. Pfluger, president; Wm. Bauer, Jr., manager; W. A. Pfluger, secretary-treasurer.

Valdosta, Ga.—Valdosta Oil Co. will, it is reported, expend \$20,000 for improvements to plant; will also establish cotton gin with capacity of 75 bales daily.

## ELECTRIC-LIGHT AND POWER PLANTS

Amarillo, Okla.—Amarillo Water, Light & Power Co. will install 400-horse-power gas

producer and gas engine; G. B. Findley, Ma-chesney Bldg., Pittsburg, Pa., is engineer.

Batesville, Ark.—City will install 250-horse-power Corliss engine and 250-ampere dynamo in electric-light and water plant; to cost \$6000. Address The Mayor.

Bristol, Va.—City is considering municipal ownership of electric-light and power plant. Address The Mayor.

Calvert, Texas.—Calvert Water, Ice & Electric Light Co. has engaged Louis Block, engineer, 45 East 42d St., New York, to prepare plans for electric-light plant recently noted; will erect brick and concrete building, 150x60x18 feet, to have 3½ feet elevation above ground; will install two water tubular boilers and three electric-light generators direct connected to engines, two 75-kilowatt, one 35-kilowatt; will also install 25-ton ice and refrigerating plant.

Erwin, Tenn.—Toney & Kirkpatrick are arranging to develop water-power property; have not completed details.

Fitzgerald, Ga.—Fitzgerald & Oclila Electric Railway & Power Co. will build electric plant on Lake Beatrice to furnish power for 12-mile railway and electricity for lighting; will erect repair shops near power plant; C. A. Holtzendorf, general manager, Fitzgerald; S. Tilden Holtzendorf, president, 61 Fifth Ave., New York.

Flatonla, Texas.—Paulus & Rhodes will install electric-light plant.

Fort Payne, Ala.—E. C. Drew, Monroe, La., contemplates constructing power plant on Wills Creek for generating electricity; surveys are being made.

Fort Worth, Texas.—Tarrant County Commissioners' Court will be petitioned to grant 25-year franchise to Fort Worth Light & Power Co., J. C. Lord, superintendent, to furnish Glenwood, Polytechnic Heights and Sycamore Heights with electric lights and gas.

Fort Worth, Texas.—City voted \$50,000 of bonds for improvements to electric-light plant, including installation of about 400 arc lights; Mr. Trammell, City Engineer. (Recently mentioned.)

Greenville, Tenn.—P. C. Ottinger is, it is rumored, interested in plan to construct water-power-electrical plant on French Broad River.

Hattiesburg, Miss.—Hattiesburg Traction Co. awarded contract to Electrical Installation Co., Chicago, Ill., for erection of 150,000 power plant; equipment to be installed will be capable of developing 1000 kilowatts; building to be of brick. C. Z. Stevens is general manager of Hattiesburg Traction Co.

Hendersonville, N. C.—Appalachian Power Co., lately reported incorporated with \$250,000 capital stock, is reported as to construct three dams and develop 50,000 horse-power for transmission by electricity; first dam to be completed this year. George E. Ladshaw and associates of Spartanburg, S. C., incorporated the company.

Hydro, Okla.—Burns & McDonnell, consulting engineers, Seacrest Bldg., Kansas City, Mo., are preparing plans for electric-light plant and water-works at Hydro; cost \$25,000.

Little Rock, Ark.—Westinghouse-Church-Kerr Company, 10 Bridge St., New York, has contract to construct power plant in connection with new union depot and yards; building will be 45x70 feet; concrete and brick; smokestack will be built of vitrified tile, filled in with concrete, and reinforced with twisted steel bars from bottom of foundation to top of stack; stack will be 150 feet high above foundation; two 500-horse-power water-tube boilers will be installed, which will furnish heat for station, steam for engines which will generate light for building, and compressed air for interlocking signals to be installed in yards later; power plant will be connected with union station by vitrified pipe duct, which will contain wires to furnish light; pipes which will carry water and steam to station will be laid in concrete and brick tunnel; estimated cost, \$80,000; plant to be completed by August 1. W. E. Strolbrand will be engineer in charge of construction.

Macon, Miss.—City voted \$20,000 bond issue for improvements to light and water plant; will install additional electrical unit (steam or other power) and water-driven pumps; will probably construct high-potential line to Brooksville, supplying current to that town; G. B. Baskerville, Jr., superintendent and designing engineer.

Mammoth Spring, Ark.—Mammoth Spring Electric Co. (not incorporated, Napoleon Hill, owner) has let contracts for equipment for electric-light plant recently mentioned; will erect metal and concrete building; J. A. Omberg, engineer, Goodwyn Insti-

tute Building, Memphis, Tenn.; Frank F. Hill, manager.

Richmond, Va.—Bids for construction of electric plant, to be opened April 27, are to include construction of dams, raceways, foundations and other concrete work, rock excavation, radial brick, electric generators, steam turbines, excitors, electric wiring, boilers, etc. E. D. Richardson, chairman committee on electricity. (Recently mentioned. See "Machinery Wanted.")

Sarasota, Fla.—City granted franchise to H. P. Porter and associates for electric-light plant, street lighting, etc.

Spiro, Okla.—City contemplates voting on issuance of electric-light and water-works bonds. Address The Mayor.

Talladega, Ala.—Alabama Power Development Co., J. M. Wolfe, manager, is making preliminary investigations at Jackson Shoals, nine miles from Talladega, to determine amount of horse-power available; no details determined.

Washington, N. C.—Contract reported awarded to R. W. Marshall & Co. of the Traction Engineering Co., New York, of which F. R. Massey is general manager, for construction of electric-power plant for proposed railway; Rodman & Rodman, Washington, N. C., represent holding and construction company.

## FLOUR, FEED AND MEAL MILLS

Alexandria, La.—Alexandria Mill & Elevator Co., A. V. Nelson, president, recently noted (under "Miscellaneous Enterprises") to erect elevator, will install corn-grinding machinery within next 30 days; cost of buildings \$15,000; cost of machinery \$10,000. (See "Machinery Wanted.")

Knox City, Texas.—J. W. Moore will erect 50-barrel flour mill.

Kyle, Texas.—Slon & Herald will rebuild corn mill recently reported burned; loss \$2000; rebuilding plans not definite.

Leeds, Mo.—Standard Grain & Milling Co. has purchased Hurd Rice Milling Co.'s plant and mill, it is reported, expend \$30,000 to convert into flour mill with capacity of 500 to 1000 barrels daily.

Scottsville, Va.—J. L. Pitts, W. S. Dorview and D. H. Pitts are proceeding with construction of proposed flour mill; building 36x60 feet, with 24x30-foot engine-room; capacity, 75 to 100 barrels; will close contract for machinery early in May. (See "Machinery Wanted.")

Shelby, N. C.—Charles C. Blanton and Geo. Blanton will establish flour and corn mill; cost \$15,000.

## FOUNDRY AND MACHINE PLANTS

Birmingham, Ala.—Radiators, Boilers, etc. American Radiator Co., 282 Michigan Ave., Chicago, Ill., has, it is reported, purchased and will operate Birmingham Pipe & Casting Co.'s plant, using it for manufacture of radiators, boilers, etc.

Corsicana, Texas.—Iron Works.—William Clarkson has purchased Oil City Iron Works; will enlarge and install additional equipment.

Dallas, Texas.—Stove Foundry.—W. B. Graham, Anderson, Ala., contemplates establishing stove foundry in Dallas.

Decatur, Ala.—Foundry.—R. R. Crissman, Cullman, Ala., will establish foundry at Decatur.

Louisville, Ky.—Flows.—B. F. Avery & Sons, 150 West Main St., recently referred to, will not build addition to plant, but will build entirely new plant; will construct one-story buildings and a few of more than one story; total area to be over 500,000 square feet of floor space; will use steel trusses, with enclosing walls of concrete or brick, sheathing concrete or four-inch plank, gravel roofing, etc.; will install boilers and engines for 700 horse-power, automatic sprinkler system, electric power and other equipment; Geo. M. Brill, 1134 Marquette Bldg., Chicago, Ill., is preparing plans and specifications, which are to be ready for bids in five or six weeks. (See "Machinery Wanted.")

St. Louis, Mo.—Gas Machines.—St. Louis Automobile Gas Machine Co. incorporated with \$10,000 capital stock by Charles O. Williams, William H. Richardson and Lyman E. Gerould.

Temple, Texas.—Foundry, etc.—Willig & Guseelman will rebuild foundry, repair and machine shops reported burned; loss \$7000.

Wheeling, W. Va.—Iron Works.—Agricultural Iron & Wire Work Co. will erect addition and improve plant.

## GAS AND OIL DEVELOPMENTS

Arkansas.—Robert A. Campbell, 1322 High St., Little Rock, Ark., is organizing company to develop gas and oil lands.

Nowata, Okla.—Little Diamond Oil Co. incorporated with \$50,000 capital stock by H. G. Jannett, E. T. King, both of Nowata, and W. B. Tucker, Coffeyville, Kan.

Nowata, Okla.—Melvern Oil Co. incorporated with \$10,000 capital stock by H. G. Chaney, E. K. Chaney and J. Wood Glass.

Nowata, Okla.—Brushton Oil Co. incorporated with \$10,000 capital stock by H. G. Chaney, E. K. Chaney and J. Wood Glass.

Orange, Texas.—Orange County Oil Co. organized with W. H. Stark, president; E. W. Brown, vice-president; J. O. Sims, secretary and treasurer; awarded contract to Union Iron Works, Houston, Texas, for drilling rig; has leased and will develop 250 acres of oil land.

Port Arthur, Texas.—John W. Gates contemplates developing 2000 acres of land for oil deposits.

Tishomingo, Okla.—Johnson County Oil & Development Co. incorporated with \$15,000 capital stock by George Vannoy, S. M. Sargent and C. W. Peavey.

Tulsa, Okla.—Oklahoma Oil & Gas Co. incorporated with \$10,000 capital stock by R. W. Kellough, Guy L. Reed and L. Smith.

Tulsa, Okla.—Milton Oil Co. incorporated with \$10,000 capital stock by W. H. Carson, Clayton L. Stenor, John L. Stelson and others, all of Muskogee, Okla.

## ICE AND COLD-STORAGE PLANTS

Appalachia, Va.—L. O. Pettit will establish ice plant; has begun construction.

Brady, Texas.—Brady Ice Co. incorporated with \$6000 capital stock by J. Meers, W. R. Rice, W. H. Ballou and others.

Calvert, Texas.—Calvert Water, Ice & Electric Light Co. will install 25-ton ice and refrigerating plant. (See "Electric-light and Power Plants.")

Commerce, Texas.—Mrs. Bertha Samuels, Greenville, Texas, has, it is reported, purchased controlling interest in Commerce Electric Light Co., and will install machinery for 30-ton ice plant.

Durant, Miss.—Castleberry Bros. will establish ice plant and steam laundry.

Gainesville, Ga.—E. L. Nonnemacher has leased Gainesville Ice Co.'s plant, will dismantle, remove to site on railway siding, increase facilities with improved machinery, treble capacity and operate.

Glenn Springs, S. C.—Glenn Springs Hotel, A. Schilleter, manager, will install cold-storage plant.

Hillsboro, N. C.—Hillsboro Milling & Manufacturing Co. will establish ice plant.

Savannah, Ga.—W. W. Almar & Co., recently noted to rebuild burned ice plant, has placed order with York Manufacturing Co., York, Pa., for 65-ton ice plant; cost about \$40,000; will erect building of ordinary construction, to cost \$6000; brick, wood and metal structure, 55x150 feet; to be in operation by May 1.

Tampa, Fla.—Florida Brewing Co. has purchased property of Chattanooga Brewing Co.; will make additions to ice plant.

Tulsa, Okla.—Thompson Ice Co. incorporated with \$20,000 capital stock by William M. Thompson, J. W. McLoud, both of Tulsa, and Beeks Erick, Fort Wayne, Ind.

## IRON AND STEEL PLANTS

Knoxville, Tenn.—Iron Furnace.—William K. H. Langer of Westinghouse Electric & Manufacturing Co., Pittsburg, Pa., is reported as contemplating purchase and development of iron-ore properties and construction of iron furnace; properties in Knox, Sevier and Jefferson counties.

Sayre, Ala.—Finishing Plant.—John Nevin Sayre and Francis B. Sayre, New York, of Sayre Mining & Manufacturing Co., Sayre, Ala., are reported as considering establishment of iron and steel-finishing plant.

## LUMBER-MANUFACTURING PLANTS

Alabama.—B. W. Grant, Jacksonville, Ala., has, it is reported, purchased 1800 acres of timber land in eastern Calhoun and Cleburne counties.

Alexandria, La.—Ferd Brenner Lumber Co., Cincinnati, Ohio, will establish band-saw mill for production of hardwood lumber; will erect building of ordinary construction. (Recently noted.)

Atlanta, Ga.—Interstate Timber Co. incorporated with \$50,000 capital stock by Edward Young Clarke, Rolfe Hunt, Homer L. Hunt and others.

Chilhowee, Tenn.—Maryville Lumber Co., Maryville, Tenn., will establish two circular-

saw mills on 4000 acres of timber land near Chilhowee; output to be 20,000 feet daily; construction has begun.

Colfax, La.—Dalton & Clark, Winnfield, La., contemplate establishment of hardwood mill at Colfax.

Columbia, S. C.—L. T. Yoder, Pittsburg, Pa., contemplates establishment of veneer and hardwood plant near Columbia.

Dermott, Ark.—Ebbitt Lumber Co. will establish lumber mill near Dermott; will construct 30 miles of railroad between Dermott and Tillar, Ark.

Dublin, Ga.—Z. Clark Thwing, Grand Rapids, Mich., will probably rebuild Southland Lumber Co.'s veneering plant, previously reported burned.

Ellisville, Miss.—Interstate Timber Co., organized by Edward Young Clarke, Atlanta, Ga., has purchased 2200 acres of timber land near Ellisville.

Enid, Okla.—Southwestern Lumber Co. incorporated with \$20,000 capital stock by J. G. Winthrop, E. V. Harrison and George W. Harrison.

Jackson, Tenn.—Hatchie Lumber Co. incorporated by G. T. Ransom and Richard Douglas; to continue established plant at Hatchie, Tenn.; main office, Jackson.

Kentwood, La.—Amos Kent Lumber & Brick Co. will rebuild plant recently reported burned; loss \$200,000.

Macland, La.—McDonald Bros. will probably rebuild hardwood sawmill reported burned.

Moselle, Miss.—P. M. Ikeler will rebuild drykilns recently reported burned; loss \$15,000; construction by owner.

Palo Pinto, Texas.—Ed. L. Ramsey has purchased large tract of cedar timber land and will establish mills.

Salisbury, N. C.—Coulbourn Bros. of Suffolk, Va.; Thos. H. Tilghman, Salisbury, Md., and John Townsend, Jr., Selbyville, Del., purchased timber rights on 1177 acres land in Johnston county; mainly North Carolina pine. (Noted in March.)

Salem, S. C.—James C. Shockley will rebuild sawmill and resaw plant reported burned; loss \$7000.

Savannah, Ga.—Seaboard Lumber Co. incorporated with \$10,000 capital stock by E. W. Sipple, Gordon Saussy and J. W. Goette.

Shreveport, La.—Charles R. Ball Lumber Co., Charles R. Ball, president, recently reported incorporated with \$50,000 capital stock, succeeds Charles R. Ball, manufacturer and wholesale yellow pine lumber.

St. Joseph, La.—Schneider Bros. will establish sawmill.

Suffolk, Va.—George H. Lewis, Norfolk, Va., has purchased plant of Standard Manufacturing Co. at Suffolk.

Waycross, Ga.—Hebard Cypress Co., Scranton, Pa., awarded contract to Clarke Bros., Belmont, N. Y., for construction of Waycross sawmill in connection with development of Okefenokee swamp. (Previously mentioned.)

## MINING

Atlanta, Ga.—Gold.—Jenns Creek Gold Mining Co. incorporated with \$200,000 capital stock by William W. McAfee, Thomas H. Pitt, William H. McAfee and others.

Columbia, Tenn.—Phosphate.—Independent Phosphate Co., Columbia, J. C. Reed, president, Nashville, Tenn., has acquired heatherwood mines in Maury and Hickman counties and is planning development.

Harriman, Tenn.—Stone.—Southern Construction Co. incorporated with \$20,000 capital stock by W. H. Grannis and others. (See "Miscellaneous Enterprises.")

Holden, Mo.—Lead and Zinc.—Holden Lead & Zinc Co. incorporated with \$48,000 capital stock by T. H. Miller, T. C. Carter and C. H. Rudolph.

Joplin, Mo.—Lead and Zinc.—Louisville Lead & Zinc Co. incorporated with \$100,000 capital stock by W. B. Pate, Edward F. Smith and J. P. Barnard.

Joplin, Mo.—Lead and Zinc.—Nowata Lead & Zinc Co. incorporated with \$150,000 capital stock by P. A. Whettack, J. L. McMahon, W. N. Squires and others.

Knoxville, Tenn.—Iron.—Wm. K. H. Langer of Westinghouse Electric & Manufacturing Co., Pittsburg, Pa., is reported as contemplating development of iron mines. (See "Iron and Steel Plants.")

Miami, Okla.—Edwin C. Mining Co. incorporated with \$5000 capital stock by J. H. Christler, A. J. Fires, both of Childress, Texas; W. E. Clapham, Vinita, Okla., and others.

Miami, Okla.—Edna Ray Mining Co. incorporated with \$12,000 capital stock by J. H.



Christler, A. J. Fires, both of Childress, Texas; G. C. Crews, Nowata, Okla., and others.

New Orleans, La.—Gravel and Sand.—Louisiana Gravel & Sand Co. incorporated with \$75,000 capital stock by Charles Mendelson, J. M. Chapman and G. P. Parkerson.

Walthall (not a postoffice), Ga.—Iron.—Independent Mining Co., recently reported incorporated, will develop about 200 acres near Cedartown; will install mining equipment costing about \$15,000, including two log washers, with gravel screen and picking belt; steam shovel, cars and dinkies and pump; daily capacity from 100 to 200 tons low phosphorus brown ore; Thomas J. Deane, Rome, Ga., president; Chester H. Graves, general manager and treasurer; offices at mines and at Cedartown.

### MISCELLANEOUS CONSTRUCTION WORK

Augusta, Ga.—Levee, etc.—City Council adopted report of Flood Commission and appropriated \$100,000 for improvement work to protect city from floods; this will include raising of banks of Augusta Canal from pumping station to locks, raising of bulkheads, riprapping of banks of river from Hawk's Gulley to 9th street, strengthening of canal banks by reinforced concrete, etc. Nisbet Wingfield, City Engineer and Commissioner Public Works. (Recently noted.)

Beaumont, Texas.—Wharf.—City awarded contract to H. D. Applegate & Son, Beaumont, at \$29,200 for construction of wharf 700 feet long; wharf proper to be 15 feet wide, but is to be filled in between river's bank and outer edge, making landing 180 feet wide; contract includes entire work excepting filling; \$50,000 of bonds previously reported voted; also proposed to erect warehouses and other facilities; C. L. Scherer, City Engineer. (Recently mentioned.)

Beaumont, Texas.—Canal.—Jefferson county contemplates voting on issuance of \$400,000 of bonds to deepen Sabine-Neches Canal and make improvements in Neches river; plans adopted by Executive Committee, Leon Sonfield, chairman, provide for lock in canal to prevent inflow of salt water; Orange county will provide remainder of amount necessary to complete work. (Orange county recently mentioned to vote on issuance of \$100,000 of bonds for this purpose.)

Dallas, Texas.—Dams.—Hall-Carden Co. of Dallas, has contract to construct proposed dams Nos. 2, 4 and 6 across Trinity river, and is now building railroad from Kleberg to dam No. 2, distance of three miles, over which to carry machinery and supplies; it is expected to complete dam No. 2 within four months, and Nos. 4 and 6 by December 1; Government has accepted dam No. 1 and Contractor McCord has removed machinery to Parson's Slough, where he is constructing another dam, which is expected to be completed by end of December.

Denison, Texas.—Dam.—City will construct earth dam; total embankment 145,000 cubic yards; bids to be opened May 10; Alex. W. Acheson, Mayor. (See "Machinery Wanted.")

Fort Stockton, Texas.—Irrigated Lands.—Fort Stockton Irrigated Lands Co., recently reported incorporated with \$150,000 capital stock by V. P. Brown and Judge C. C. Clamp of San Antonio, and others, has not yet completed organization; selling headquarters, 309 Fidelity Trust Building, Kansas City, Mo.; Texas offices, Fort Stockton and San Antonio (Judge Clamp legal representative in the latter city); engineer in charge, F. O. Ray; addresses, Fort Stockton and Colorado Springs, Col.; company will at once ditch 20,000 acres by direct flow; two storage reservoirs to be constructed; about 5000 acres now under ditch.

Norfolk, Va.—Seawall and Dredging.—Bids will be opened May 8 for constructing seawall and dredging, Navy-yard, Norfolk; R. C. Hollyday, chief Bureau Yards and Docks, Navy Department, Washington, D. C. (See "Machinery Wanted.")

Mart, Texas.—Dam.—City will construct earthen dam 700 feet long and containing 30,000 cubic yards of earth; bids opened April 12; O'Neill Engineering Co., Wilson Bldg., Dallas, Texas, in charge. H. W. Bass, Mayor.

Westminster, Md.—Heating.—Edward S. Mobley & Bro., engineers, Frederick, Md., have contract for centralization of power and heating plants at Western Maryland College, Westminster; vacuum system of Warren Webster Company, Camden, N. J., will be used; two 100-horse-power tubular boilers will be required, with usual heaters, pumps, reducers, etc., ordinarily used in connection with such a system; length of pipe line will be about 1000 feet, with good underground covering; 11 buildings are to be changed from ordinary steam to vacuum system; no

materials have been purchased except those to be furnished by Warren Webster Company.

Wilmington, N. C.—Docks.—Maryland Dredging & Contracting Co., Frank A. Furst, president, 804-806 Fidelity Bldg., Baltimore, has begun dredging at foot of Brunswick street for proposed docks and slips to be erected by Seaboard Air Line Railway at Wilmington in connection with extensive terminal improvements. (See "Railway Shops, Terminals, Roundhouses, etc.")

### MISCELLANEOUS ENTERPRISES

Amarillo, Texas.—Land Development.—Rock Island Land & Immigration Co. incorporated with \$10,000 capital stock by L. A. Hough, R. Downing and E. H. Reddy.

Atlanta, Ga.—Rubber.—Dunham Rubber Co. incorporated with \$15,000 capital stock by F. W. Dunham, George S. Lowndes, Jr., and Holland B. Lowndes.

Birmingham, Ala.—Sanitary Beds, etc.—Birmingham Sanitary Bed & Manufacturing Co. incorporated with \$5000 capital stock; J. W. S. Jones, president and treasurer; Wilson P. Jones, secretary.

Birmingham, Ala.—Advertising.—American Advertising & Sales Co. incorporated with \$100,000 capital stock; J. E. Shelby, president; Hinds Peavy, vice-president; J. M. Walters, secretary and treasurer.

Birmingham, Ala.—Contracting.—Wilkinson-Wright Contracting Co. incorporated with \$4000 capital stock; Robert H. Wright, president and treasurer; J. Wilbur Wilkinson, general manager.

Bristol, Va.—Tenn.—Publishing.—Bristol Publishing Co. incorporated by H. G. Peters, A. Parlett, A. P. Peppers and others.

Charleston, W. Va.—Heating, Plumbing, etc.—Humphrey Heat Specialty Co. incorporated with \$5000 capital stock by W. T. Thayer, J. K. Thayer, Bert Humphrey and others.

Chattanooga, Tenn.—Land Improvement.—Central Improvement Co. has purchased 40 acres of land and will make improvements, including laying off streets and sidewalks and construction of sewers.

Chattanooga, Tenn.—Printing.—Imperial Press, T. D. Barr, president, 809 Georgia Ave., will increase capital stock from \$10,000 to \$25,000; has purchased and will install new machinery.

Chesapeake City, Md.—Drydock.—Henry Diebert Barge Building Co., Elkton, Md., will establish drydock at Chesapeake City.

Clarksburg, W. Va.—Land Improvement.—Stealey Heights Land Co. incorporated with \$10,000 capital stock by W. H. Lewis, C. B. Alexander, E. M. Wilson and others.

Dayton, Tenn.—Hardware.—Bally Hardware Co. incorporated with \$10,000 capital stock by W. C. Bailey, C. L. Locke, Robert Godsey and others.

Durant, Miss.—Steam Laundry.—Castleberry Bros. will establish steam laundry and ice plant.

Eldorado Springs, Mo.—Land Development.—Iron Springs Development & Water Co. incorporated with \$6000 capital stock by J. D. Knowlton, J. W. Reeder, J. L. Avery and others.

Fort Smith, Ark.—Land Improvement.—Commerce Realty Co. incorporated with \$25,000 capital stock; A. L. Ferguson, president; J. H. Fox, vice-president; H. I. Fitzhugh, secretary and treasurer.

Frostburg, Md.—Land Improvement.—Eckhart Flat Land Co. incorporated with \$16,000 capital stock by Frank Watts, Frederick Wehner and John Youngerman.

Graham, Va.—Contracting.—Walton, Witten & Graham incorporated with \$10,000 capital stock; Samuel Walton, president; C. H. Witten, vice-president; R. K. Crockett, secretary; G. M. Graham, treasurer.

Gulfport, Miss.—Delivery.—Gulfport Delivery Co. incorporated with \$10,000 capital stock by H. J. Guel, C. J. Barrow and others.

Happy, Texas.—Hardware.—Happy Hardware Co. incorporated with \$8000 capital stock by S. C. Whitman, J. F. White and J. C. Pipkin.

Harriman, Tenn.—Construction.—Southern Construction Co. incorporated with \$50,000 capital stock by W. H. Grannis, T. A. Christman, W. H. Spencer and others; will quarry and crush stone, construct cement buildings and manufacture cement blocks.

Hattiesburg, Miss.—Stationery.—Hattiesburg Stationery Co. incorporated with \$10,000 capital stock by J. S. Lea, I. I. Cherry and H. E. Welch.

Hobart, Okla.—Automobiles.—Citizens' Auto Co. incorporated with \$5000 capital stock by W. E. Beard, Joe D. Norris and H. Standeven.

Honaker, Va.—Tramroads.—Russell Fork Transportation Co. incorporated with \$100,000 capital stock; W. H. Crockett, president; A. P. Perley, vice-president, secretary and treasurer; will operate tramroads for handling lumber.

Hot Springs, Ark.—Garage.—Hot Springs Automobile Co. organized by H. A. Whittington and E. W. Stearns; will establish garage.

Houston, Texas.—Industrial City.—Home Securities Co. (Chicago and Pittsburg capitalists) has reorganized and incorporated with capital stock of \$2,000,000 to establish proposed industrial city; has purchased 8000 acres of land on Buffalo bayou for location; C. A. Chapman, engineer in charge; offices in Binz Building.

Houston, Texas.—Publishing.—Texas Labor Press incorporated by Max Andrews, H. B. Sutton and M. H. Schermerhorn.

Houston, Texas.—Lighting Fixtures and Fans.—Brown-Woods Electric Co., 805 Fannin St., recently reported incorporated (under "Electric-light and Power Plants"), will continue to deal in lighting fixtures and fans.

Huntington, W. Va.—Land Improvement.—Greater Huntington Realty Co. incorporated with \$25,000 capital stock by C. H. Bronson, O. K. Hayslip, Harry Broh and others.

Kansas City, Mo.—Repair Shop.—Bossert Auto Repair Co. incorporated by John H. Bovard, N. W. Obyrne, A. T. Bossert and others.

Kansas City, Mo.—Dyeing Works.—Enterprise Dyeing Works will erect building to replace present plant.

Little Rock, Ark.—Automobiles.—Southern Auto. Co. incorporated with \$5,000 capital stock; R. S. Conover, vice-president; E. P. Evans, secretary and treasurer.

Little Rock, Ark.—Automobiles.—Union Auto Co. incorporated with \$10,000 capital stock; C. D. Ledbetter, president; C. K. Lincoln, vice-president; L. E. Polk, secretary; W. L. Hemingway, treasurer.

Louisville, Ky.—Hardware.—J. Guy Everett Company incorporated by J. Guy Everett, Goldie Everett and B. Frank Wells.

Luxora, Ark.—Land Improvement.—Luxora Land & Investment Co., Wm. F. Workman, president, recently reported incorporated with \$200,000 capital stock, will develop several thousand acres of St. Francis Valley land lately purchased; will construct houses and barns and many miles of ditching and fencing; will also clear, plow and plant.

Macon, Ga.—Heating, Plumbing, etc.—J. C. Gormly Company incorporated with authorized capital stock of \$10,000 by Aurora M. Gormly, Annie F. Gormly and Paul Damour.

Macon, Ga.—Lighting and Heating.—Georgia Lighting Co. incorporated with \$10,000 capital stock by A. J. Smith, W. C. Meredith and Patrick Lyons.

Marshall, Texas.—Motors.—Port Caddo Motor Co. incorporated with \$2500 capital stock by H. T. Lytleton, Sidney Coleman, H. C. Jacquish and others.

Memphis, Tenn.—Mineral Water.—Mineral Waters Co. incorporated with \$25,000 capital stock by Dorsey H. White, R. E. L. Wilson, C. M. Drew and others.

Memphis, Tenn.—Land Improvement.—E. R. Parham, trustee, has purchased for \$20,000 the A. A. Arnold property and will subdivide and place on market.

Mercedes, Texas.—Plantation.—Rio Grande Plantation Co. incorporated with \$10,000 capital stock by G. E. Simpson, A. E. Chapman and Robert J. Smith.

Meridian, Miss.—Plumbing.—Guy & McPhillips Plumbing Co. incorporated with \$5000 capital stock by Eugene Beggerley, L. T. Guy and J. A. McPhillips.

Muskogee, Okla.—R. C. Cox, Fort Smith, Ark., has purchased 95 acres of land for \$24,000 and will develop as residential section.

Nashville, Tenn.—Excavating.—Odorless Scavenger Co. organized by H. E. Fletcher and B. S. Ham; will conduct odorless excavating by vacuum system.

Nashville, Tenn.—Grain.—Knox Grain Co. incorporated with \$15,000 capital stock; W. E. Knox, president; will operate through public elevators and warehouses for several months, and in July take over Samuels Elevator Co.'s plant.

New Orleans, La.—Bottling.—Louisiana Bottling Works incorporated with capital stock of \$5000 by Anthony Chavaro, Joseph Rumore and Marco Rosamano.

Norfolk, Va.—The Ferries Co. incorporated with \$10,000 capital stock; R. E. Jordan, president; John Rodgers, vice-president; Fergus Reid, treasurer; W. G. Davis, secretary; will operate Norfolk county ferries, R. E. Jordan having recently acquired 10-year lease for same.

Norfolk, Va.—Land Improvement.—Beach

Shore Land Corporation incorporated with \$5000 capital stock; J. F. Duncan, president; T. S. Bowes, vice-president; S. M. Price, secretary and treasurer.

Oklahoma City, Okla.—Venetian Cafeteria Co. incorporated with \$5000 capital stock by L. L. Bland, M. G. Sheldon and E. Harris.

Oklahoma City, Okla.—Printing.—Oklahoma Specialty Printing Co. incorporated with \$5000 capital stock by A. H. Knox, H. H. Rogers and D. B. Welty.

Parkersburg, W. Va.—Electric Renovating. Electric Sanitary Renovating Co. incorporated by W. E. Kerney, W. W. Jackson, D. C. Munlock, A. G. Patton and C. C. Camden.

Point Pleasant, W. Va.—Publishing.—Register Publishing Co. incorporated with \$25,000 capital stock by H. R. Howard, L. C. Somerville, W. C. Whaley, Griff T. Smith and J. S. Spencer; will resume publication of Point Pleasant Register.

Richmond, Va.—Printing.—Evans Press incorporated with \$25,000 capital stock; E. S. Evans, president; B. A. Ruffin, vice-president; E. N. Newman, secretary and treasurer.

Sapulpa, Okla.—Coal Elevator.—St. Louis & San Francisco Railroad, J. F. Hineckley, chief engineer, St. Louis, Mo., will rebuild automatic coal elevator reported burned; loss \$40,000.

St. Louis, Mo.—Lard and Live Stock.—Happy Valley Land & Live Stock Co. incorporated with \$3000 capital stock by E. Shackelford, D. W. Shackelford and Frank Amos.

St. Louis, Mo.—Hay and Grain.—Christ Hilke Hay & Grain Co. incorporated with \$20,000 capital stock by Christ Hilke and Bernard F. Lefield.

St. Louis, Mo.—Land Improvement.—Holland Realty & Power Co. incorporated with \$200,000 capital stock by G. B. Schaffff, T. P. Plumridge, R. V. Johnson and others.

Suffolk, Va.—Printing.—Suffolk Printing & Supply Co. organized with Lem P. Jordan, president; Joseph E. McGuire, vice-president; Lewis G. Brothers, secretary; John B. Pinner, treasurer; acquired McLeod Press Building, and will enlarge.

Tampa, Fla.—Towing and Lightering.—Tampa Towing & Lightering Co., Box 113, recently noted incorporated with \$35,000 capital stock, elected W. M. Tupper president, Ralph Tupper secretary and H. C. Edwards general manager. (See "Machinery Wanted.")

Tampa, Fla.—Dredging.—Hillsboro Dredging Co. incorporated with \$36,000 capital stock by W. H. Caldwell, W. C. Edwards and H. C. Edwards.

Thurmont, Md.—Grain Elevator.—Washington, Frederick & Gettysburg Railroad, H. T. Carmichael, chief engineer, Frederick, Md., is promoting organization of company to erect elevator and supply store at Thurmont.

Tuscaloosa, Ala.—Printing.—Weatherford Printing Co. incorporated with \$10,000 capital stock; C. W. Weatherford, president; J. Marvin Weatherford, secretary and treasurer.

Washington, D. C.—Land Improvement.—Anacostia Real Estate Co. incorporated with \$10,000 capital stock; W. I. Bateman, president, 522 Tenth St. N. E.; W. N. Miller, vice-president, Berwyn, Md.; W. P. Harlow, secretary, 636½ Morton Pl. N. E.; H. M. Spolir, treasurer, all of Washington.

Weatherford, Okla.—Fire Protection.—City is considering \$10,000 bond issue for fire protection. Address The Mayor.

Webster Groves, Mo.—Sand and Gravel.—St. Louis Sand & Gravel Co. incorporated with \$100,000 capital stock by D. C. Hartwell, F. C. Gensler and F. J. Schneeberger.

Winston-Salem, N. C.—Printing.—C. W. Barber has purchased building and will enlarge for Barber printery; depth to be 100 feet.

Yonkum, Texas.—Laundry.—Lone Star Steam Laundry (C. R. Steinhmann), recently noted to establish steam laundry, has completed building and is installing equipment. (See "Machinery Wanted.")

### MISCELLANEOUS MANUFACTURING PLANTS

Abbeville, La.—Sugar Refinery, etc.—Isle Maronne Development Co., Ltd., incorporated with \$225,000 capital stock; C. J. Edwards, president; Felix Broussard, vice-president; A. J. Godard, secretary and treasurer; to cultivate cane, refine sugar, etc.

Anderson, S. C.—Bed Sheets.—James L. Jones, 414 North Fant St., will establish bed-sheet factory; will purchase 90-inch sheeting, bleached and unbleached. (See "Machinery Wanted.")

Augusta, Ga.—Beverages.—Bludwine Bottling Co. incorporated with \$5000 capital stock

by Luther L. Arrington, Augusta; H. Claude Anderson, Athens, Ga., and others.

Baltimore, Md.—New York Confectionery Co. has purchased property at 33 West Lexington street and will spend \$5000 for improvements.

Baltimore, Md.—Bottling.—Gottlieb-Bauernschmidt-Straus Brewing Co., Central Ave. and Fawn St., awarded contract to Baltimore Ferro-Concrete Co., 16 St. Paul St., Baltimore, for erection of bottling plant at Central avenue and Fawn street; 25x120 feet; reinforced concrete and brick; concrete foundation; slag roof; cost \$5000.

Baltimore, Md.—Fertilizers.—Interests which planned organization of Independent Fertilizer Co., 25 Broad St., New York (mentioned in January), are understood to have decided to adopt name of United States Agricultural Corporation, with capital stock of \$50,000,000, half common and half preferred stock; corporation plans to acquire various Southern fertilizer factories and Kaliwerke Sollstedt, a potash plant located in Germany, besides having a contract for output of Ducktown (Tenn.) sulphuric acid plant of Tennessee Copper Co., 11 Broadway, New York; various plans to be acquired with annual output of 1,000,000 tons of fertilizer. J. P. Morgan & Co., Wall and Broad Sts., New York, are understood to have agreed to finance corporation, and they telegraph Manufacturers' Record: "No details settled as yet regarding agricultural corporation." Previous reports stated Waldemar Schmidtman of Germany is to be elected president and T. C. Meadows, general manager of Buffalo Fertilizer Co., Buffalo, N. Y., to be general manager. (Other details previously stated.)

Beaumont, Texas.—Beaumont Gaslight Co. awarded contract for erection of gasometer with capacity of 200,000 cubic feet; cost \$30,000.

Breckenridge, Texas.—Hardware.—Black-Walker Hardware Co. incorporated with \$17,200 capital stock by William Black, Jack Black, B. S. Walker and others.

Brownsville, Tenn.—Byrn-Sturdivant Drug Co. incorporated with \$10,000 capital stock by J. W. Byrn, Franklin Sturdivant, H. R. Sangster and others.

Charleston, S. C.—Bottling.—Kornahrens Bottling Works contemplates increasing capital stock from \$5000 to \$10,000.

Chickasha, Okla.—Mattresses.—Sigmon Furniture Manufacturing Co., recently noted (under "Woodworking Plants") to rebuild plant, will erect two-story mattress factory; 50x100 feet; brick; first floor cement; cost \$4500; will install felting, excelsior and stuffing machines; capacity, 125 mattresses daily.

Clarksburg, Tenn.—Overalls, Trousers, etc. Old Hickory Manufacturing Co., Nashville, Tenn., contemplates establishment of plant at Clarksburg; to manufacture overalls and trousers.

Clarksburg, W. Va.—Sand Toy Co. incorporated with \$25,000 capital stock by J. A. Wallace, Clarksburg; S. E. Maxwell, Darlington, Pa.; H. R. Miller, Pittsburg, Pa., and others.

Cordele, Ga.—Cotton-stalk Paper.—Southern Cotton Stalk Pulp & Paper Co., Candler Bldg., Atlanta, Ga., has decided on Cordele as location for first of proposed plants to manufacture paper from cotton stalks; building to be 40x348 feet, with 128-foot wing, and cost about \$25,000; to install power plant in angle; paper-making machinery to cost about \$50,000; 24-hour capacity to be 25 tons of finished paper; will use steam, electric or water power, latter being preferred, and 500 horse-power being required; cost \$100,000; also plan to establish auxiliary factories for paper bags and boxes, to cost \$100,000. (Noted in January.)

Crystal City, Mo.—Glass.—Pittsburg Plate Glass Co., main office, Pittsburg, Pa., will install new equipment, including motor generator set, in plant at Crystal City.

Cumberland, Md.—Glass Etching.—W. C. Devecmon has purchased for \$6650 plant of Maryland Glass Etching Co.

Dallas, Texas.—Tents and Awnings.—Ewell Tent & Awning Co. will erect factory building; pressed brick and stone; 30x90 feet; electric elevators; electric lights.

Durham, N. C.—Automobiles.—Durham Automobile Co. organized with \$50,000 capital stock to manufacture automobiles; T. H. Lindsey, secretary; at present are having machines made by contract; may later install machinery for factory. (See "Machinery Wanted.")

Elberton, Ga.—Electrical Supplies.—V. C. Severance, Kenosha, Mich., is considering Elberton as location for plant to manufacture electrical supplies.

Enid, Okla.—Creamery.—Puritan Creamery Co. organized by F. G. Murphy and J. W. Murphy.

Enid, Okla.—Vinegar.—Ell Admire and S. F. Sigle are organizing company with \$20,000 capital stock to establish plant for manufacturing vinegar.

Fort Worth, Texas.—Gas.—Fort Worth Light & Power Co. is considering construction of mains to Glenwood, Polytechnic Heights and Sycamore Heights to furnish those suburbs with gas; will probably be granted 25-year franchise.

Godfrey, W. Va.—Distillery.—Flat Top Liquor Co. will rebuild distillery and buildings reported burned; loss \$12,000.

Hamburg, Ark.—Gloves, Overalls, etc.—J. A. Killian, recently noted, has purchased machinery and will manufacture canvas and husking cloth gloves, work shirts, overalls, etc.; will erect \$700 building of mill construction; size 40x60 feet.

Hampton, Va.—Gloves.—Virginia Glove Factory has leased space in Collier Building; will install 50 machines.

Hickory, N. C.—Tamping Implements.—Abe F. Hart Railway Tamping Implement Co. incorporated with \$300,000 capital stock by Abel F. Hart, J. H. P. Cilley and S. A. Isenhower.

Houston, Texas.—Pulp, etc.—Alexander Peddie contemplates establishment of rice-straw pulp mill in Houston; estimated cost \$100,000; paper mill also contemplated.

Huntington, W. Va.—Bakery.—Emsinger & Stevenson will rebuild bakery recently reported burned; will erect brick building, 80x140 feet, at cost of \$31,000; E. N. Alger, architect; cost of bakery machinery, \$20,000.

Jacksonville, Fla.—Gas Plant.—Jacksonville Gas Co. will erect gas plant to replace present structure; will install container with capacity of 1,000,000 cubic feet of gas; cost \$250,000.

Johnson City, Tenn.—Gas Plant.—City has granted franchise to T. A. and G. C. Sells for gas plant.

Johnson City, Tenn.—Lime.—W. M. Lundy & Son, W. M. Lundy, manager, will establish plant on Knob Creek to manufacture agricultural and commercial lime; minimum daily capacity, 50 tons; will erect stack and kilns. (See "Machinery Wanted.")

Kansas City, Mo.—Lighting Apparatus.—Auto Illuminating & Igniting Co. incorporated with \$150,000 capital stock by H. S. Harmon, W. D. Vickers, A. D. Shode and others.

Kansas City, Mo.—Shoes.—Ferguson-Davis Shoe Co. incorporated with \$20,000 capital stock by S. H. Ferguson, DeWitt C. Davis, Mary E. Davis and others.

Kansas City, Mo.—Sanitary Speculum Manufacturing Co. incorporated with \$15,000 capital stock by T. W. Houston, S. S. Wolverton and W. W. Bryant.

Lexington, N. C.—Wheat Cleaner.—Company organized with J. M. Cook president, Z. I. Walser vice-president, E. A. Rothrock secretary and treasurer, to manufacture patented wheat cleaners.

Louisville, Ky.—Tobacco.—Panama Tobacco Co. incorporated with \$25,000 capital stock by James M. Buckner, J. F. Wiechers and Geo. Lloyd.

Mineral Wells, Texas.—Hardware.—Hance-Howard Hardware Co. incorporated with \$10,000 capital stock by M. M. Hance, Tom W. Howard and S. P. Kinney.

Mobile, Ala.—Paint and Roofing.—Southern Paint & Roofing Co. incorporated with \$10,000 capital stock; Chris V. Shoub, president; Earle E. Moore, vice-president; H. B. Moore, secretary and treasurer.

Montgomery, Ala.—Fertilizers.—Buffalo Fertilizer Co. incorporated with capital stock of \$100,000; T. C. Meadows, Buffalo, N. Y., president; W. A. Gayle, Montgomery, secretary; will supply Alabama trade of Buffalo Fertilizer Co. of Buffalo, N. Y., which has purchased Germofert Manufacturing Co. plant at Montgomery. Mr. Meadows is general manager of the Buffalo (N. Y.) company.

Monticello, Fla.—Medicines.—Calmetto Company incorporated with \$20,000 capital stock; Abe Simon, president; B. J. Mays, vice-president; Frank A. Simon, secretary and treasurer.

New Orleans, La.—Creamery.—Hammond Co-operative Creamery organized with L. C. Anthon president, J. A. Hinkley vice-president, Ed Consterline secretary and treasurer; will erect creamery and manufacture butter and cheese.

New Orleans, La.—Sewer Plugs.—American Sewer Pipe Co. incorporated with \$25,000 capital stock by John T. Delahay, Alfred L. Blum, William F. Gleason and others.

New Orleans, La.—Wall-board, etc.—Mastic Wall-Board & Roofing Co. has increased capital stock from \$10,000 to \$100,000.

New Orleans, La.—Oil Refinery.—Hisgen Bros. (proprietors of Four Brothers Axle Grease Co. and Four Brothers Independent Oil Co.) of Albany, N. Y., are negotiating to establish oil refinery lately mentioned; definite arrangements not concluded.

Norfolk, Va.—Broilers.—W. H. Barnard & Co. incorporated with \$50,000 capital stock; W. H. Barnard, president; G. S. Barnard, vice-president; E. E. Burgess, secretary and treasurer; will install equipment for manufacturing patented duplex broiler.

Oklahoma City, Okla.—New Star Manufacturing & Construction Co. incorporated with \$10,000 capital stock by James Sykes, Edgar D. Martin and Frank H. Ford.

Parkersburg, W. Va.—Clothing.—United Woolen Mills Co. will establish clothing factory in connection with present plant; present building will be altered.

Pauls Valley, Okla.—Hardware.—Valley Hardware Co. incorporated with \$75,000 capital stock by T. A. Vaughn, J. A. Snodgrass and Byron A. Vaughn.

Port Towson, Okla.—Lime.—Fort Towson Lime Co. incorporated by G. C. Cline, F. J. Kline, E. A. Carter and others.

Rector, Ark.—Ledgers.—Robertson Patent Index Ledger Co. incorporated with \$100,000 capital stock; J. R. Hefford, President; J. W. Dollison, vice-president; Robert Laddell, secretary and treasurer.

Richmond, Va.—Drier and Condenser.—Condenser & Drier Co. incorporated with \$50,000 capital stock; H. E. Phillips, president; S. G. Phillips, treasurer and manager; A. H. Phillips, secretary; will manufacture equipment for drying and condensing lumber, bricks, etc.

Rockport, Mo.—Christian Bros. Manufacturing Co. incorporated with \$35,000 capital stock by James T. Christian, Jennie Christian, Charles Christian and others.

Rockport, Texas.—Bottling.—C. C. Paine, Box 162, contemplates establishment of bottling works. (See "Machinery Wanted.")

Rome, Ga.—Scales.—Rome Scale Manufacturing Co. organized with \$12,500 capital stock by C. Terhune, B. I. Hughes, J. T. Swinford and others; will erect buildings.

San Antonio, Texas.—Macaroni.—A. Battaglio and others will establish \$25,000 macaroni factor.

Shelby, N. C.—Bakery.—R. F. Putnam, Cherryville, N. C., will establish bakery at Shelby.

Shreveport, La.—Novelties.—No-T-Chr Company, Ltd., incorporated with \$10,000 capital stock; B. H. Collins, president; J. J. Green, vice-president; J. S. Moore, secretary and treasurer.

St. Bernard, La.—Lime.—W. J. Kelly has purchased plant of Louisiana Lime Co.; will renovate and install machinery for manufacturing lime by new process; will organize company.

St. Joseph, Mo.—Carpet and Draperies.—Brady Carpet & Drapery Co. incorporated with \$75,000 capital stock by R. E. Townsend, A. H. Uhlinger and J. C. Wyatt.

St. Louis, Mo.—Creamery.—Lebanon Creamery Co. incorporated by A. J. Nelson, J. C. Jolly, W. N. Duval and others.

St. Louis, Mo.—Elmer Manufacturing Co. incorporated with \$100,000 capital stock by Ralph Cuzon, James H. Ward and L. V. Cutis.

St. Louis, Mo.—Barthels Cigar Co. incorporated with \$20,000 capital stock by F. J. Dauscha, Joseph Jordan, August Barthels and E. M. Barthels.

Sumter, S. C.—Gas Plant.—Russell & Taylor, Greensboro, N. C., and others contemplate establishment of gas plant at Sumter, to cost \$120,000; will probably apply for franchise.

Tampa, Fla.—Cigars.—A. W. Thomas will erect one-story wooden factory building and equip for manufacture of cigars.

Tampa, Fla.—Brewery.—Florida Brewing Co. has purchased property, etc., of Chattanooga Brewing Co. and will make improvements, including addition to ice plant.

Tampa, Fla.—Cigars.—Sam I. Davis & Co. will erect factory building to replace present structure; to be larger than present plant.

Tampa, Fla.—Fertilizer.—Tampa Fertilizer Co. awarded contract to Southern Lumber & Supply Co. for erection of addition to plant. (Recently mentioned.)

Washington, D. C.—Screens.—Federal Screens Co., 918 F St. N. W., incorporated with \$25,000 capital stock; L. T. Greist, president; M. C. Massie, vice-president; J. E. Hlatt, secretary-treasurer; will lease buildings and install sheet metal working machinery for manufacture of sheet-steel frames for window screens; machinery proposals to be opened May 1. (See "Machinery Wanted.")

Washington, D. C.—Car Platform.—King Automatic Platform Co. incorporated with \$300,000 capital stock; W. M. King, president; J. P. Edwards, 2230 H St. N. W., vice-president; I. H. Saunders, the Olympia, secretary and treasurer, all of Washington, will manufacture automatic car platforms.

## RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Fitzgerald, Ga.—Fitzgerald & Ocella Electric Railway & Power Co. will build repair shops; C. A. Holtzendorf, manager, Fitzgerald; S. Tilden Holtzendorf, president, 61 Fifth Ave., New York.

Fort Worth, Texas.—Texas Pacific Railway, B. S. Wathen, chief engineer, Dallas, Texas, will rebuild roundhouse, machine shops, coal chutes, water tanks and coal bins recently reported burned; 36 stalls; roundhouse and machine shop to be fireproof; machine shops 175x75 feet; boiler-house 30x60 feet; 20 chutes; buildings to cost \$105,000.

Wilmington, N. C.—Maryland Dredging & Contracting Co., Frank A. Furst, president, 804-806 Fidelity Bldg., Baltimore, Md., has begun dredging at foot of Brunswick street for proposed docks and slips, which will be part of terminal improvements planned for Wilmington by Seaboard Air Line Railway; dock is to be dredged to depth of 24 feet at mean low water so that largest vessels may receive and discharge cargo into two warehouses to be built on each side; these buildings are to be 150x500 feet, constructed of wood, with corrugated-iron sides and top, be equipped with elevators, trackage, etc., and have receiving platforms 60x120 feet; present system of warehouses will be rearranged and re-equipped; in addition to warehouses, freight depot will also be erected; V. E. McBea, Jr., engineer, Raleigh, N. C., will be in charge of work; \$140,000 has been appropriated. (Previously mentioned.)

## ROAD AND STREET IMPROVEMENTS

Accomac, Va.—Board of Supervisors of Accomac County will open bids May 3 for widening to 30 feet and raising two and one-half feet above its present level 1000 yards of road leading from Saxis Island to the mainland of Accomac county; William L. Nock, chairman Board of Supervisors, Temperanceville, Va. (See "Machinery Wanted.")

Alexandria, Va.—Alexandria county, Richmond, Fredericksburg & Potomac, Washington, Southern & Washington and Alexandria & Mount Vernon electric-railway companies will jointly pave King street from western city limits to union passenger railway station with vitrified brick at cost of \$17,000; work will be under supervision of County Engineer Garrett, Clarendon, Va.

Arlington, Va.—Bids will be opened May 5 for constructing macadam road in Arlington National Cemetery; M. Gray Zalinski, Major and Quartermaster, U. S. Army, Washington, D. C. (See "Machinery Wanted.")

Atlanta, Ga.—City Council adopted resolution calling for pavement of Decatur and Marietta streets with wood blocks; \$10,000 to be appropriated for each; R. M. Clayton, City Engineer.

Augusta, Ga.—A. H. McDaniel secured contract at 10¢ cents per square foot for laying cement sidewalks ordered by City Council during 1909, and W. F. Bowe at 34¢ cents per linear foot for curbing. Nisbet Wingfield, City Engineer and Commissioner of Public Works. (Recently mentioned.)

Canton, N. C.—City awarded contract to R. H. Sorrells of Canton and D. L. Boyd, Waynesville, N. C., for constructing macadam streets; estimated cost \$30,000.

Charlotte, N. C.—City will grade and pave sidewalks on Tryon and Trade streets within fire limits, consisting of 4435 square yards of concrete walk; contract soon to be awarded; A. H. Wearn, city clerk and treasurer.

Chattanooga, Tenn.—Hamilton County Court voted to issue \$50,000 of bonds for construction of Roynon boulevard.

Chattanooga, Tenn.—Central Improvement Co. will expend about \$15,000 for streets, sidewalks and sewers in connection with improvements of about 40 acres of land. (See "Miscellaneous Enterprises.")

Columbia, S. C.—City will lay strip of granolithic sidewalk on each side of Main street; bids to be opened April 26; A. W. Ednes, City Engineer. (See "Machinery Wanted.")

Franklin, La.—City will construct 7380 square feet of brick curbing and 31,719 square feet of cement sidewalks; bids to be opened April 22; Charles N. Frost, Mayor pro tem. (See "Machinery Wanted.")

Gainesville, Ga.—City will lay 17,000 square



yards of street paving (vitrified brick, wood block, bitulithic, or granitoid block pavement) with necessary granite curb as specified; bids to be opened May 4; John B. Rudolph, Mayor; H. S. Jaudon, engineer, Box 111, Gainesville. (See "Machinery Wanted.")

Galveston, Texas.—City awarded contract to North American Dredging Co., San Francisco, Cal., for filling section of city between Avenues H and J and 33d and 45th streets; V. E. Austin, Commissioner of Streets and Public Property.

Graham, N. C.—Alamance county awarded contract to R. L. Peters, Knoxville, Tenn., at \$190,000 for construction of 46 miles macadam road; R. L. Holt, Burlington, N. C., chairman Road Commission; Gilbert C. White, Durham, N. C., engineer. (Previously mentioned.)

Hagerstown, Md.—William L. Hammond, Mayor, recommended to City Council paving of streets.

Hillaboro, Texas.—City voted \$4000 of bonds for street improvements. Address The Mayor.

Houston, Texas.—City will pave 35 miles of streets with gravel and shell; will undertake work with city forces; H. B. Rice, Mayor.

Jacksonville, Fla.—Duval county, recently noted to vote May 11 on bond issue of \$1,000,000 for road construction, contemplates extension and hard-surfacing of public highways; partly vitrified block; F. J. Hyde, chairman Board of County Commissioners, Jacksonville; Gail L. Barnard, County Engineer.

Knoxville, Tenn.—Knox County Road Commission awarded contracts for road improvements as follows: Asylum avenue pike, Concrete Block and Paving Co., \$2000; Ebenezer and Lowe's Ferry pike, Peters & Co., \$2000; Hardin Valley pike, J. W. Gillespie, \$2000; Dry Gap pike, A. H. Luttrell, \$1000; Pickens' Gap pike, J. W. Gillespie, \$2000; Rutledge pike, all bids rejected; Thorn Grove pike, J. P. McCarty, \$1000; Sevierville pike, McCammon & Johnson, \$5000; Clinton and Third Creek pikes, Horace A. Mann, \$8000; \$5000 for former and \$3000 for latter pike; Jacksboro pike, all bids rejected; Martin's Mill pike, J. W. Gillespie, \$3000; Kimberlin Heights pike, McCammon & Johnson, \$2000; Beaver Ridge pike, all bids rejected; Jacksboro and Tazewell pikes, A. E. Earns, \$3500; Tazewell pike, Horace A. Mann, \$8000; Maryville pike, F. E. Brady, \$2000; Dandridge pike, F. E. Brady, \$8500. Figures represent appropriation made by Commission, and bids were made on price per yard for removal and placing of dirt, macadam, etc. New proposals will be invited in cases where bids were rejected. (Knox county recently mentioned as having appropriated \$45,750 to repair roads.)

Knoxville, Tenn.—Improvement District No. 21 (Oak avenue) will issue \$5400 of bonds for street improvements; Jno. M. Brooks, Mayor.

Knoxville, Tenn.—Knox County Court passed resolution requesting enabling act to issue \$500,000 of bonds for road construction. Address County Commissioners.

Lexington, Ky.—Board of Public Works decided to repair 14 streets, including Maxwell, North Limestone, West 2d, 3d and other streets.

Lynchburg, Va.—City contemplates issuance of \$10,000 of bonds for street improvements, etc.; H. L. Shaner, City Engineer.

Madisonville, Tenn.—Monroe county will vote September 14 on issuance of \$100,000 for road construction; W. A. Gormley, clerk.

Manchester, Va.—City is considering issuance of \$40,000 of bonds for street improvements. Address The Mayor.

McMinnville, Tenn.—Warren county will soon begin proposed road construction, for which \$150,000 of bonds have been issued. Address County Commissioners.

Montgomery, Ala.—City has extended time of opening bids for paving with clay gravel roadway of Forest avenue, from Highland avenue to city limits, from April 5 to April 19; Robert Tait, City Treasurer. (See "Machinery Wanted.")

New Orleans, La.—City will open bids April 19 for paving Louisa street with old square granite blocks; Charles R. Kennedy, Comptroller. (See "Machinery Wanted.")

Palmetto, Fla.—M. Towne of Tampa is proceeding with proposed improvements to streets. (See "Water-works.")

Parkersburg, W. Va.—Parkersburg-Williamstown Boulevard Association organized to construct road, probably a paved one, between Parkersburg and Williamstown, distance of 11 miles; estimated cost of paving per mile is \$10,000, making total cost \$110,000; president, C. B. Chancellor; secretary, O. S. Hawkins; consulting engineer, J. Madison Jackson. (See "Machinery Wanted.")

Rome, Ga.—Floyd county will vote in June on issuance of \$200,000 of bonds for road improvements. Address County Commissioners.

Sapulpa, Okla.—City awarded contract to American Paving Co., probably of Sapulpa, for 40 blocks of asphalt paving; construction has begun.

Sarasota, Fla.—City voted bond issue of \$25,000 for street improvements; G. W. Franklin, Mayor.

Savannah, Ga.—City contemplates street improvements in vicinity of Estill avenue; John W. Howard, City Engineer. (See "Hotels.")

Spottsylvania, Va.—Spottsylvania county will vote May 18 on issuance of \$100,000 of bonds—\$60,000 for road improvements in Courtland district and \$40,000 for road improvements in Chancellor district; John E. Mason, Judge of Circuit Court.

Tampa, Fla.—City will vote May 18 on issuance of \$480,000 of bonds for public improvements, to be divided as follows: For steel bridge, abutments, etc., Lafayette street, according to plans and specifications furnished by Mr. Hildreth, \$170,000; to complete paving now under way, \$82,500; paving in annexed territory, \$50,000; paving in old city limits, \$22,500; sewers in new territory, \$40,000; sewer in old city limits, \$10,000; municipal hospital, \$30,000; city hall, \$75,000.

Union Springs, Ala.—Engineer Brown, Morristown, Tenn., will make surveys preliminary to improvement of roads; roads to be constructed of sand and clay; first contract will be let for 10 miles; \$10,000 of bonds recently reported voted.

Washington, D. C.—William V. Judson, Commissioner D. C., has prepared schedule for street work for coming fiscal year, necessitating expenditure of \$130,000; improvements contemplate laying of about 65,000 square yards asphalt pavement and asphalt block, 5201 square yards vitrified brick and 15,130 feet new curbing.

Weatherford, Texas.—City is considering paving of streets with bitulithic; H. L. Mosely, Mayor.

Weatherford, Okla.—City is considering issuance of \$20,000 of bonds for street improvements. Address The Mayor.

Wheeling, W. Va.—Ohio county will pave one mile of River road; bids to be opened April 20; A. S. Bell, County Engineer. (See "Machinery Wanted.")

Winston-Salem, N. C.—Forsythe county will construct macadam road five miles long. Address County Clerk. (See "Machinery Wanted.")

### SEWER CONSTRUCTION

Ada, Okla.—City will construct storm and drainage sewer on 12th and Main streets and sanitary main sewers; bids opened April 15; W. B. Jones, City Clerk.

Augusta, Ga.—City awarded contract to E. J. Erbeling of Augusta at \$7156.60 for sewer construction during 1909; Nisbet Wingfield, Commissioner Public Works. (Recently mentioned.)

Brighton, P. O. Bessemer, Ala.—City has voted \$10,000 of bonds to construct storm and sanitary sewers. Address The Mayor. (Recently mentioned.)

Canton, N. C.—City awarded contract to M. H. Kelly, Asheville, N. C., for construction of sewer and water system; sewage will empty into Pigeon River. J. N. Mease, Mayor. (Recently mentioned.)

Canton, Ga.—J. B. McCrary & Co., Atlanta, Ga., have contract to construct sewer system at Canton; \$5000 bonds issued.

Capitol Hill, Okla.—City will vote April 27 on issuance of \$15,000 of bonds for sewer construction. Address The Mayor.

Cedartown, Ga.—City awarded contract to J. W. Wilkinson & Co., Ensley, Ala., for construction of about two miles of sewers; bid is \$1.95 for rock, 45 cents for earth and 15 cents for laying pipe (pipe to be furnished by city). S. S. Evans, City Engineer. (Recently mentioned.)

Chattanooga, Tenn.—Central Improvement Co. will expend about \$15,000 for construction of sewers, streets and sidewalks in connection with improvement of 40 acres of land. (See "Miscellaneous Enterprises.")

Cherokee, Okla.—City will vote on issuance of \$35,000 of bonds for extension and completion of sewer system and water-works. Address The Mayor.

Clearwater, Fla.—City will construct sewer system; bids to be opened April 26; T. J. Sheridan, Clerk; The Holmboe Company, Louisville, Ky., is engineer. (See "Machinery Wanted.")

Colgate, Okla.—City voted \$50,000 of bonds for water-works extension, sewers and city hall. Address The Mayor.

Hagerstown, Md.—William L. Hammond, Mayor, recommended to City Council construction of sanitary sewer system.

Hillaboro, Texas.—City voted \$12,000 of bonds for improvement and extension of sewer system and water-works. Address The Mayor.

Lexington, Miss.—City is considering bond issue for sewer construction. Address The Mayor.

Manning, S. C.—City has extended date of opening bids for sewer construction from April 15, as lately stated, to April 29; work will consist of 8500 feet of vitrified pipe, 8 and 10 inches, and about 15 manholes; bids to be opened April 15; R. C. Wells, Town Clerk; Lee & McLellan, consulting engineers, Sumter, S. C. (See "Machinery Wanted.")

Monticello, Ark.—City Council has authorized organization of sewerage improvement district; will lay 6½ miles of main at cost of \$35,000; bonds will be issued; plans of proposed system, prepared by Walter G. Kirkpatrick, Jackson, Miss.; J. J. McCloy, E. B. Wells and George A. Knox appointed improvement board and will have work in charge.

Montgomery, Ala.—City will lay sanitary sewer on South Lawrence and Maury streets; bids to be opened May 3; Robert Tait, City Treasurer. (See "Machinery Wanted.")

Mt. Sterling, Ky.—City has engaged Arthur Collins, Pittsburgh, Pa., to make plans for and give estimate of cost of sewer system; vote on bond issue contemplated; C. W. Harris, Mayor.

Nashville, Tenn.—City awarded contract to George W. Powell of Nashville at \$1708.50 for laying sewer in Madison street and alley No. 557, connecting with 10th-street sewer.

Oakland, Md.—City awarded contract to William Tunny, 306 Raynor Ave., Joliet, Ill., at \$31,784.30 for construction of sewer system and water-works; Penniman & Fairly, Marine Bank Bldg., Baltimore, Md., are engineers; Truman West, Mayor. (Recently mentioned.)

Savannah, Ga.—City contemplates constructing storm sewerage system under terms of an agreement with Harvey Granger. (See "Hotels.")

Tampa, Fla.—City will vote May 18 on issuance of bonds for sewer construction as follows: Sewers in new territory, \$40,000; sewers in old city limits, \$10,000. (Recently mentioned. See "Road and Street Improvements.")

Texas City, Texas.—The Texas City Co. reported to construct sewer system.

Weatherford, Okla.—City is considering issuance of \$30,000 of bonds for sewer construction. Address The Mayor.

### TELEPHONE SYSTEMS

Bentonville, Va.—Warren County Farmers' Mutual Telephone Co. incorporated with \$5000 capital stock; R. T. Morrison, president; R. A. Tristoe, secretary.

Chester, S. C.—Chester Telephone Co., R. R. Hofner, president, will expend about \$4000 on work recently mentioned; construction commenced; J. M. Bell, manager. (See "Machinery Wanted.")

Claremont, Va.—Harrison Telephone Co. incorporated with \$6000 capital stock; W. C. Webb, Burrowsville, Va., president; W. W. Rich, vice-president; E. F. Harrison, secretary and treasurer, both of Claremont.

Clarksville, Tenn.—Dancy Fort, trustee for bondholders, has purchased for \$44,650 property of Home Telephone Co.; it is planned to reorganize company and extend lines throughout county.

Disputanta, Va.—Disputanta Telephone Co. incorporated with \$5000 capital stock; Thos. Temple, president; A. N. Cooks, vice-president; J. A. Hobbs, secretary and treasurer.

Fort Worth, Texas.—Southwestern Telegraph & Telephone Co., main office, Houston, Texas, will establish North Side exchange, in building to be erected by Mrs. A. Cobden; capacity about 600 phones; structure will be 50x80 feet; Denton fancy faced brick; limestone trimmings; cost \$10,000.

Grundy, Va.—Grundy Raven Telephone Co. incorporated with \$4000 capital stock; W. L. Dennis, president; W. E. Williams, secretary and treasurer.

Grundy, Va.—State Phone Co. incorporated with S. R. Hurley president, E. E. Smith secretary and treasurer; will operate telephone line from Grundy to Blackey.

High Point, N. C.—Prospect Telephone Co. incorporated by R. E. Mendenhall, J. P. Sink, J. L. Newton and others.

Macon, Ga.—Atlantic Radio Wireless Telephone Co., main office, New York, will establish station at Macon.

McArthur (not a postoffice), Okla.—McAr-

thur Telephone Co. incorporated with \$3000 capital stock by Henry Black, John Rodgers, both of Texmo, Okla., and others.

Pensacola, Fla.—Atlantic Radio Wireless Telephone Co., main office, New York, Edwin Sydney Canan, engineer director, will establish wireless telephone station on American National Bank Building; 130 feet high.

Savannah, Ga.—Atlantic Wireless Telephone Co., main office, New York, will establish station at Savannah.

Springfield, Mo.—Osark-Bell Telephone Co. will, it is reported, expend \$55,000 for improvements to system, including placing cables under ground.

Washington, Ga.—Washington Telephone Co. incorporated with \$15,000 capital stock by Marie Fitzpatrick, T. M. Fitzpatrick, W. W. Quinn and others; will continue operation of established system, Miss Fitzpatrick having purchased controlling interest; will expend about \$5000 for improvements, including new cross-roads poles and replacing network of wires with cables.

### TEXTILE MILLS

Albany, Ga.—Sheetings.—Albany Cotton Mills is name of company reported organized recently; capital stock is \$250,000; will erect brick and wood buildings and install 10,000 spindles, 300 looms, etc., for manufacturing fine broad sheetings; steam or electric power to be decided on; 400 horse-power required; W. W. Face, president; C. M. Shackelford, vice-president; John A. Betjeman, treasurer; Edwila Sterne, secretary.

Bonham, Texas.—Sheetings.—Bonham Cotton Mill Co. will build addition; was reported in December as to expend \$30,000 for additional machinery; now has 12,000 ring spindles and 352 looms.

Chester, S. C.—Yarns.—Eureka Cotton Mills awarded contract to J. A. Jones, Charlotte, N. C., for erection of addition; also contracted for 8000 spindles and 450 looms to be installed; now operating 14,748 ring spindles.

Cleburne, Texas.—Dr. Sheeole and associates plan organization of \$300,000 cotton-mill company.

Eatonton, Ga.—Cotton Duck.—John W. Cannon, Concord, N. C., has purchased Middle Georgia Cotton Mills, Eatonton; reported to enlarge and operate; has 6000 spindles and 215 looms.

Greensboro, N. C.—Cotton Cloth.—Pomona Mills incorporated with capital stock of \$750,000 by E. P. Wharton, T. A. Hunter, J. E. Latham and others. Mr. Wharton recently reported as having purchased claims against Pomona Cotton Manufacturing Co. with intention of buying property at sale on April 27; mill has 19,000 ring spindles and 330 narrow looms.

Hagerstown, Md.—Silk Ribbons.—Hagerstown Silk Co. will erect four-story 60x112-foot addition and install 60 looms, special silk machinery, electric motors, wiring, transmission equipment, etc.; now operates 60 looms, dyeing and finishing equipment; electric power. (See "Machinery Wanted.")

Jackson, Ga.—Efforts being made to organize company capitalized at \$1,000,000 for erection of cotton mill to be operated by electricity from Central Georgia Power Co.'s water-power-electric plant now being constructed and previously detailed; several members of company named, offices in Grand Building, Macon, Ga., have offered to subscribe to stock.

Jonesboro, N. C.—Drills.—Leece Cotton Mill Co. organized with D. E. McIver of Sanford, N. C., president; G. W. Huntley of Wadesboro, N. C., vice-president, and J. R. Jones of Sanford, treasurer; has acquired Clark Manufacturing Co. mill of 100 looms for manufacturing; contemplates increasing one-third and adopting electricity for power.

Lafayette, Ga.—Hosiery.—Walker County Hosiery Mills addition, lately reported, will be 50x80 feet and cost about \$7500; will expend \$12,000 to \$15,000 for new additional machinery, increasing daily capacity from 600 dozen to 1000 dozen pieces hosiery; Adams & Schneider, Chattanooga, Tenn., have building contract.

Meridian, Miss.—Hosiery.—Alden Knitting Mills of New Orleans, La., awarded contract to Rubush-Dabbs Construction Co. of Meridian, Miss., for construction of buildings for Meridian mill recently reported; main structure 52x123 feet, of brick, two stories high; dye and boiler house, 40x80 feet, of iron construction; all on concrete foundations; plans and specifications by P. J. Krouse of Meridian; plant will be known as The Priscilla Mill, capitalized at \$30,000, and have 100 knitting machines, loopers, ribbers, sewing machines, dyeing and finishing equipment, etc., for manufacturing seamless hosiery; will be driven by electricity.

Raleigh, N. C.—Hosliery.—Martin Hosliery Mill has added some 240-needle knitting machines; will add a few 176-needle machines and probably a dyehouse. (Recent report not exact.)

### WATER-WORKS

Amarillo, Okla.—Amarillo Water, Light & Power Co. will install 400-horse-power gas producer and gas engine; G. B. Findley, engineer, Machesney Bldg., Pittsburg, Pa., is engineer.

Atlanta, Texas.—City voted \$15,000 water-works bonds. Address The Mayor.

Augusta, Ga.—City opened bids April 14 for furnishing all tools and labor and laying water mains ordered during 1909; Nisbet Wingfield, City Engineer and Commissioner Public Works.

Augusta, Ga.—J. H. McKenzie Sons of Augusta are lowest bidders at \$20,000 for erection of auxiliary steam pumping station; Nisbet Wingfield, Commissioner of Public Works, is considering changing specifications so as to reduce cost to \$15,000. (Recently mentioned.)

Batesville, Ark.—City will install 250-horse-power Corliss engine and 250-ampere dynamo in water and electric-light plant; cost \$6000. Address The Mayor.

Canton, N. C.—City awarded contract to M. H. Kelly, Asheville, N. C., to construct water and sewer systems at Canton; water to be secured from mountain stream near city. J. N. Mease, Mayor. (Recently mentioned.)

Capitol Hill, Okla.—City will vote April 27 on issuance of \$35,000 of bonds for construction of water-works. Address The Mayor.

Cherokee, Okla.—City will vote on issuance of \$35,000 of bonds for extension and completion of water-works and sewer system. Address The Mayor.

Clearwater, Fla.—City will construct water-works; bids to be opened April 25; T. J. Sheridan, Clerk; The Holmboe Company, Louisville, Ky., engineer. (See "Machinery Wanted.")

Colgate, Okla.—City voted \$50,000 of bonds for water-works extension, sewer system and city hall. Address The Mayor.

Conway, Ark.—City is considering construction of water-works. Address The Mayor.

Dallas, Texas.—City has voted \$500,000 of bonds for construction of 6,000,000-gallon reservoir; S. T. Hayes, Mayor. (Further facts noted in February.)

Fordyce, Ark.—Fordyce Light & Water Co. increased capital stock to \$75,000 to provide for construction of water-works recently mentioned.

Galveston, Texas.—Board of City Commissioners will receive bids until May 12 for construction of eight-inch cast-iron water main across Galveston Ship Channel, from Pier 14 to U. S. Government dyke, thence along dyke to Immigration Station; will require 1500 linear feet of submerged pipe and 2500 linear feet of shore pipe; submerged pipe to be laid 42 inches below mean low tide; H. C. Lange, Commissioner of Water-works and Sewerage; A. T. Dickey, City Engineer. (See "Machinery Wanted.")

Hillsboro, Texas.—City voted \$12,000 of bonds for improvement and extension of water-works and sewerage system. Address The Mayor.

Honaker, Va.—City is considering construction of water-works. Address The Mayor.

Hydro, Okla.—Burns & McDonnell, consulting engineers, Scarritt Bldg., Kansas City, Mo., are preparing plans for water-works and electric-light plant at Hydro; cost \$25,000.

Meridian, Miss.—Meridian Water-works Commission is formulating plans for construction of 500,000-gallon reservoir at plant of Meridian water-works; reservoir will cover about 80 acres, and dam, spillway, etc., about 20 acres additional; cost \$75,000; W. F. Wilcox is general manager of Meridian water-works.

Moss Point, Miss.—City contemplates installation of water-works system; committee has been appointed to ascertain approximate cost, and W. G. Kirkpatrick, Jackson, Miss., engaged to make preliminary survey; Geo. W. O'Neill, Mayor.

Mulberry, Fla.—L. N. Pipkin has let contract and purchased equipment for extension of water-works recently mentioned.

Murphy, N. C.—Joseph B. Rider, civil engineer, Louisville, Ky., has made survey of city and estimate on cost of constructing water-works; \$40,000 of bonds will be issued. (Recently mentioned.)

Nashville, Tenn.—City awarded contract to Sullivan & Haggerty of Nashville at \$5,811.37

for laying water main in Lockeland and Eastland.

Oakland, Md.—City awarded contract to Tunny, 306 Raynor Ave., Joliet, Ill., at \$31,784.30 for waterworks (including reservoir) and sewerage system; Penniman & Fairly, Marine Bank Bldg., Baltimore, Md., are engineers; Truman West, Mayor. (Recently mentioned.)

Olive Hill, Ky.—City is considering construction of water-works. Address The Mayor.

Palmetto, Fla.—Benjamin Thompson, Tampa, Fla., has completed plans for proposed system of water-works; \$15,000 bonds available; well 600 feet deep has been driven; Mr. Thompson will supervise work; Simpson & Wimsatt have contract for well drilling; R. D. Coles Manufacturing Co., Newnan, Ga., for erection of 50,000-gallon water tank; Coates Plumbing Co. of Tampa for supplying water pipes and hydrants; total of \$50,000 will be expended for improvements, including schedule of street paving, now being undertaken by M. Towne of Tampa. (Recently mentioned.)

Perry, Ga.—Hazelhurst & Anderson, consulting engineers, Atlanta, Ga., are preparing plans for water-works at Perry; cost \$15,000.

Santa Anna, Texas.—City voted \$25,000 of bonds for water-works. Address The Mayor.

Sarasota, Fla.—City granted franchise to H. P. Porter and associates for water-works, for fire protection and municipal purposes.

Skiatook, Okla.—City will vote April 27 on issuance of \$4000 of bonds for improvement of water-works and purchase of fire apparatus. Address The Mayor.

Spartanburg, S. C.—P. J. O. Smith has contract to erect engine-house and boiler-room for new pump at station on Chiquapin Creek; engine-room to be of concrete, walls of brick and metal roof.

Spiro, Okla.—City contemplates voting on issuance of water-works and electric-light bonds. Address The Mayor.

Waynesville, N. C.—City will erect 500,000-gallon filter plant with coagulating basin and 250,000-gallon reservoir, all of reinforced concrete; bids to be opened April 22; J. L. Ludlow, Winston-Salem, N. C., is engineer; G. W. Maslin, chairman Water-works Committee. (See "Machinery Wanted.")

West Palm Beach, Fla.—West Palm Beach Water Co. incorporated with \$50,000 capital stock; J. R. Parrott, president; J. P. Beckwith, vice-president; H. S. Jemison, secretary and treasurer.

### WOODWORKING PLANTS

Arkansas.—Handles.—O. N. Vance Company, Washington, Ind., Bean Clark, representative, will, it is reported, establish plant in Arkansas for manufacturing handles; plant to have capacity of 200 dozen handles daily; cost \$12,000 is considering Pine Bluff, Little Rock, Camden, Clarendon and Stuttgart.

Belzoni, Miss.—Butter Trays.—W. H. Allen, Jr., will establish proposed mill for manufacture of oval wood dishes (butter trays); capacity, 75,000 trays daily.

Clarksville, Tenn.—Furniture.—J. C. Bradford, Nashville, Tenn., has purchased Clarksville furniture factory; will improve and operate upon larger scale; E. P. Williams, Glasgow, Ky., will be in charge.

Columbia, S. C.—Wheelbarrows, etc.—Murray Griffin will establish plant for manufacturing wheelbarrows, warehouse trucks, plow handles, etc.

Denham Springs, La.—Heading.—C. M. Kennedy, Birmingham, Ala., will establish plant at Denham Springs for manufacturing tight-barrel heads.

Hagerstown, Md.—Barrels, etc.—Hagerstown Cooperage Co. organized by D. S. Snively and D. B. Snively, both of Waynesboro, Pa.; will establish plant for manufacturing barrels and fruit packages.

Houston, Texas.—Carriages.—Model Carriage Co. incorporated with \$12,000 capital stock by Paul Roffal, J. L. Durham and Joe Roffal.

Kansas City, Mo.—Excelsior Products.—Excelsior Products & Manufacturing Co. incorporated with \$50,000 capital stock by G. R. Bauens, J. O. Clark and C. C. Shackelford.

Knoxville, Tenn.—Wagon Stock, etc.—Tennessee Spoke Works, 22 Deadrick Bldg., incorporated with \$10,000 capital stock; Hal H. Clements, president; E. H. Wuerdeman, secretary and treasurer; Henry Wuerdeman, general manager; will erect frame buildings to cost \$2000; cost of machinery, \$5000; will manufacture heavy wagon and buggy stock and lumber.

Sheffield, Ala.—Boxes and Egg Cases.—Sheffield Lumber Co. organized by W. D. Sexton,

Cincinnati, Ohio; has purchased plant of Tuthill & Pattison Lumber Co. and will equip for manufacturing boxes and egg cases.

### BURNED

Abbeville, La.—Alsee J. G. LeBlanc's steam grist mill; loss \$1000.

Bangs, Texas.—West Texas Telephone Co.'s exchange; Woodmen Hall; Gibson Drug Co.'s store building; J. A. Powell's general store; Mrs. Howell's store.

Benton, Ky.—O. J. Wood's tobacco warehouse; loss \$9000.

Brownwood, Texas.—Brownwood electric-light plant, owned by B. S. Boysen, loss \$65,000; Cox & Co.'s wholesale house, loss \$10,000.

Bryan, Texas.—J. O. Chance's gin and cotton-house; loss \$8000.

Campville, Fla.—Campville Brick Co.'s plant; loss \$10,000.

Columbia, La.—Buildings owned by M. Jarrell, loss \$2000; William Wagoner, loss \$4500; M. L. Rutland Company, loss \$20,000; R. B. Blanks, loss \$7500; Meredith & Stevens, loss \$13,000; Mrs. Douglas, loss \$2000; Tony Pendolas, loss \$2500; S. D. Walker estate, loss \$3000; E. J. Langham, loss \$3000; Columbia Hardware Co., loss \$2500.

Chickasha, Okla.—Lacy Broom Co.'s plant; loss \$1000.

Clinton, La.—Clinton Brick & Mercantile Co.'s plant; loss \$10,000.

Collinsville, Tenn.—Baptist Church building and parsonage, loss \$4500; Rev. H. F. Burns is pastor; J. Max Glenn's residence, loss \$1000; Sam Hinton's residence, loss \$4000.

Cordele, Ga.—E. M. Pless' residence; loss \$4000.

Dallas, Texas.—H. C. Soelter's residence, loss on building \$6000; John F. Worley's dwelling, occupied by Mrs. H. Johnson, loss on building \$2500.

Drake, Okla.—Frank Wright's gin; loss \$2500.

El Campo, Texas.—J. C. Beckett's residence; loss \$7000.

Elkins, W. Va.—Western Maryland Railroad's machine shops; loss \$5000; A. Robertson, Baltimore, Md., is general manager.

Florence, S. C.—Bannockburn Mercantile Lumber Co.'s saw and planing mill; loss \$6000.

Fredericks Hall, Va.—Sawmill and stave-mill owned by T. J. Wood and A. J. Collins. Gadsden, Ala.—O. R. Randall's residence; loss about \$3000.

Godfrey, W. Va.—Flat Top Liquor Co.'s distillery and buildings; loss \$12,000.

Harper's Ferry, W. Va.—Lincoln Hall of Storer College; loss \$7500.

Illinois, Station Campbell, Okla.—Commercial Hotel; Farmers' Bank Block.

Indian Mount, Tenn.—T. W. Seay's residence; loss \$3000.

Laurel, Miss.—T. L. Lee's residence and Otis Boyd's residence; loss \$6000.

Macland, La.—McDonald Bros.' hardwood sawmill.

Maryville, Tenn.—George Benedict's residence; loss \$4000.

Mayfield, Ky.—Four tobacco warehouses owned by Lewis & Gordon, Richard Waldorp, Sherrill & Barnett and American Snuff Co.; loss \$25,000.

Midland, Texas.—Llano Hotel; Midland National Bank; First National Bank; Midland Drug Store; Taylor Drug Co.; Western Windmill Co.'s building; offices of the Midland Examiner; total loss \$300,000.

Minick, Tenn.—Paducah Cooperage Co.'s heading factory; loss \$1000.

Newport, Ark.—Warren Hotel, owned by Hardy Warren; loss \$2000.

Oceanview, Va.—W. S. Foster's residence; E. B. Miers' residence; T. C. White's cottage.

Pine Beach, Va.—Eagle Hotel.

Prescott, Ark.—Christian Church, loss \$5000. Address The Pastor, Christian Church.

Quitman, Ga.—Bank of Quitman damaged; loss \$5000.

Salem, S. C.—James C. Shockley's sawmill and resaw plant; loss \$7000.

Sapulpa, Okla.—St. Louis & San Francisco Railroad's automatic coal chute; loss \$35,000; M. C. Byers, chief engineer, St. Louis, Mo.

Sapulpa, Okla.—St. Louis & San Francisco Railroad's automatic coal elevator; loss \$40,000; J. F. Hunkley, chief engineer, St. Louis, Mo.

Shawsville, Va.—A. J. Marye's residence.

Shepherd, Texas.—Norman Sawmill Co.'s commissary, planer, dry sheds, drykilns and dollyways.

Shipman, Miss.—J. J. Pringle's sawmill; loss \$10,000.

St. Louis, Mo.—Henry Gaus & Son Manufacturing Co.'s plant; F. H. Logeman Chair Manufacturing Co.'s plant; total loss \$150,000.

Talbotton, Ga.—Mrs. Laura Leonard Matthews' residence; loss \$5000.

Tampa, Fla.—M. Britwits' store building; loss \$20,000.

Tarry, Ark.—Matthews & Ezell's stove mill; loss \$30,000.

Temple, Texas.—Willig & Gunselman's foundry, repair and machine shops; loss \$7000.

Waco, Texas.—Tom Padgett's building; Luther Armstrong's building; total loss on buildings \$12,000.

Waco, Texas.—W. R. Davidson's residence; loss \$15,000.

Warrenton, Ga.—Warren county courthouse; Harper house; office buildings of Dr. R. J. Lockett and Warrenton Clipper; residences of C. W. Cason and W. L. Wicker; total loss \$60,000.

Willow Springs, N. C.—Blacklock & King's lumber mill; loss \$2000.

Wise, Va.—Rev. G. W. Gilgore's residence; loss \$3000.

Womble, Ark.—Black Springs Lumber Co.'s planing mill and dry shed; loss \$8000.

### DAMAGED BY STORM.

Aberdeen, Miss.—M. H. Sanders & Son's cotton gin; loss \$1000.

### BUILDING NOTES

#### APARTMENT-HOUSES

Chattanooga, Tenn.—Julius Bukofzer, 615 East 4th St., is having preliminary plans prepared by Chas. E. Bearden, Chamberlain Bldg., Chattanooga, for apartment-house at 4th and Cherry streets.

Chattanooga, Tenn.—Thos. H. Wagner, 225 Temple Court, is having plans prepared by Huntington & Sears, News Bldg., Chattanooga, for \$5000 apartment-house mentioned recently; two stories; brick; composition roof; concrete floor to porch; hard pine interior finish.

Houston, Texas.—Masterson, Atkinson & Masterson contemplate erecting apartment-house.

Houston, Texas.—J. O. Ross is having plans prepared for apartment-house; seven stories; fireproof; proposed that first floor be finished entirely in mahogany and marble, with remainder of building in harmony; reinforced concrete construction; 125x150 feet.

Kansas City, Mo.—J. E. Welch will erect two apartment buildings; each two stories, and cost \$18,000.

Kansas City, Mo.—W. B. Cooper has had plans prepared by Shepard & Farrar of Kansas City for proposed apartment-house; four stories; reinforced concrete; compressed air plant for cleaning; construction begun.

Kansas City, Mo.—Waller & Holtz Realty Co. will erect apartment-house; six apartments; brick; cost \$16,000.

Louisville, Ky.—Broadway Investment Co., H. J. Schehrich, president, 704 Louisville Trust Bldg., awarded contract to General Construction Co. of same address for erection of four-story bachelor apartment building recently mentioned; 120 rooms; ordinary construction; first floor fireproof; low-pressure steam heat; electric lighting; cost \$50,000; four stores in building.

Muskogee, Okla.—R. C. Cox, Fort Smith, Ark., purchased site in Muskogee for \$19,000, and will erect apartment-house.

Nashville, Tenn.—Johnson Bransford, president Bransford Realty Co., and Robert Lusk contemplate erection of apartment building; five stories; site, 100x400 feet; building to be probably 250 feet long; heat; lights; water; elevator service; refrigeration plant; cost \$200,000.

New Orleans, La.—A. Aschaffenburg, owner Casa Grande Apartments, reported to erect another apartment-house.

Oklahoma City, Okla.—D. A. Talbott will erect apartment-house to cost \$6000.

St. Louis, Mo.—O. A. Elme will erect two three-story apartment-houses to cost \$30,000.

St. Louis, Mo.—C. M. McDonald Real Estate Co. awarded contract to Neir & Meng of St. Louis for erection of store and apartment building; 125x85 feet; contain four stores and 10 three, four and five-room apartments; work will be under supervision of William A. Lucas of St. Louis, architect; Mrs. Maria Lertora is owner of property; C. M. McDonald Real Estate Co. will have charge of renting.

Wheeling, W. Va.—Elmer Freese is having plans prepared by Geo. H. Dieringer, Wheel-



ing, for three-story brick apartment building to cost \$7000.

Wheeling, W. Va.—Henry F. Paul will erect four-story brick apartment building; 33x87 feet; cost \$16,000; plans by Geo. H. Dieringer, Wheeling.

### BANK AND OFFICE BUILDINGS

Charlotte, N. C.—R. A. Dunn, president Commercial National Bank, purchased site 35x135 feet, including a three-story office building, for \$45,500; Commercial National Bank has taken over property and will erect office building, reported to be at least eight stories high.

Chickasha, Okla.—Dr. R. P. Tye had plans prepared by Oklahoma Architectural & Engineering Co., Chickasha, for five-story bank and office building recently mentioned; fireproof steel construction; 50x110 feet; brick outside walls; first floor, mercantile; offices on four upper floors; steam or hot-water heat; electric lighting; electric passenger elevator; cost \$55,000; bids not advertised; contract not let. (See "Machinery Wanted.")

Columbia, S. C.—Carolina National Bank awarded contract to George W. Waring of Columbia for erection of addition to bank building; two stories; brick; 16x50 feet; cost \$5000.

Dallas, Texas.—Henry Pollack will erect office building; three stories and basement; fireproof; 30x90 feet; frontage of stone and brick; electrical accessories.

Griffin, Ga.—Griffin Realty Co. will erect \$100,000 hotel, office and business building. (See "Hotels.")

Grover, N. C.—Bank of Grover will erect bank building.

Guntersville, Ala.—G. B. Fettler, president, will award contract for erection of \$9000 bank building; 27x75 feet; electric lighting; plans by H. D. Breeding, Birmingham.

Harborton, Va.—S. K. Martin, secretary-treasurer Martin & Mason Co., is member of committee to secure architect to plan bank building costing about \$4000.

Lenoir City, Tenn.—S. M. Baumont Company, Knoxville, Tenn., has contract to erect bank building at Lenoir City, to be occupied by First National Bank and Lenoir Bank & Trust Co.; structure to be of brick and stone; one story; 22-foot ceiling; mezzanine floor for each bank; individual banking vaults; plans by C. A. Hayes of Knoxville, Tenn. (Recently mentioned.)

Memphis, Tenn.—Central Bank & Trust Co. is considering erection of office building, probably 14 or 16 stories high.

Muskogee, Okla.—Flynn & Ames, Oklahoma City, Okla., have had plans prepared by Latham, Smith & Hawk, Oklahoma City, for seven-story reinforced office building; 60x100 feet; fireproof; electric lighting; two-passenger elevators; cost \$150,000; about to advertise bids.

Nashville, Tenn.—John S. Woodall is reported as representing Western capitalists who will build theater, hotel and office building costing \$1,500,000 on northwest corner Seventh avenue, North and Commerce streets; seven stories high; 175x212 feet; hotel to have 170 rooms, each with bath; stores on Seventh avenue; seating capacity of theater, 2000; 180 offices, primarily for physicians, in suites, with reception, toilet, dressing and operating rooms; steam heating; electric lighting; compressed air supply; elevators, etc.; understood plans are being prepared.

Nashville, Tenn.—Parkes Building Co. incorporated with \$80,000 capital stock by Geo. S. Parkes, Thomas Parkes, Jr., Paul Roberts, F. M. Smith and others; will erect office building for physicians; six stories; frontage 50 feet, depth 114 feet; contain 70 offices, each with reception-room and bath; reinforced concrete and steel; cut stone and ornamental brick front and marble entrances; elevators; independent machinery for operating electric and heating plant; complete electrical appliances for use of occupants, gas for machines and chemical laboratories; hot and cold water, etc.

New Orleans, La.—Audubon Building Co. reported to erect four-story building to cost \$50,000.

Norfolk, Va.—Norfolk & Southern Railway has opened bids for erection of office building and freight warehouse; West Richardson, Hampton, Va., is lowest bidder for freight sheds at \$52,504, and Central Carolina Construction Co., Greensboro, N. C., for office building at \$64,083, making total of \$116,587; Mr. Richardson is lowest bidder for both buildings at \$124,224; Benjamin F. Mitchell of Norfolk prepared plans. (Further information recently stated.)

Oklahoma City, Okla.—Bass & Harbour

awarded contract to H. Ellenberger & Co. of Oklahoma City for erection of office building; eight stories and basement; 40x140 feet; fireproof; white tile-brick front, trimmed with green shadings and cornice work; 200 rooms; each suite to have individual lavatory and stationary washstands; halls and floors to be of marble and white tiling; two passenger elevators; steam heating and ventilating equipments; electric lighting; cost about \$150,000; plans by Layton, Smith & Hawk of Oklahoma City. (Recently mentioned.)

Onley, Va.—Eastern Shore of Virginia Produce Exchange will erect office building; S. K. Martin, secretary-treasurer Martin & Mason Company, Harborton, Va., has been asked to secure architect.

Plainview, Texas.—J. N. Donohoo awarded contract to Globe Construction Co., Salsaw, Okla., for erection of three-story building, recently mentioned; part of first floor to be occupied by Citizens' National Bank. (See "Hotels.")

Roanoke, Va.—Messrs. Thurman, Pace and Perry Sts., will erect \$30,000 store and office building. (See "Miscellaneous Structures.")

San Antonio, Texas.—J. H. Kirkpatrick will, it is reported, erect 12-story office building on site having frontage of 67 feet, purchased for \$30,000.

Sapulpa, Okla.—Creek Bank & Trust Co. will have plans prepared for bank and office building; three stories; white enameled brick; cost \$30,000.

Sevierville, Tenn.—Sevier County Bank had plans prepared by C. A. Hayes, 502 Bank & Trust Bldg., Knoxville, Tenn., for bank building; three stories; first floor to be occupied by bank and upper floors to be used for office purposes; 60x26 feet; brick; stone trimmings; cost \$10,000. (Recently mentioned.)

Sweetwater, Tenn.—Trust and Savings Bank of Sweetwater has plans by C. A. Hayes, Knoxville, Tenn., for bank building; one story; 22-foot ceiling; suite of offices in rear; 25x80 feet; inside to be finished in stained oak, ornamental walls and ceilings.

Wildersville, Tenn.—Bank of Wildersville, Ben Jamison, president, will erect brick bank building.

Wilmington, N. C.—Springer Coal Co. awarded contract to R. H. Brady of Wilmington for erection of office building; two stories; brick; cost \$9000; plans by B. H. Stephens of Wilmington.

### CHURCHES

Adamsville, Tenn.—D. C. McCuller has been appointed chairman of building committee to promote erection of memorial church on site of original Shiloh Church on Shiloh battlefield; cost \$10,000.

Alva, Okla.—Sealed proposals will be received by W. A. Chain, secretary building committee, until May 1 for erection of brick M. E. Church at Alva, according to plans and specifications prepared by J. W. Gaddis, Vincennes, Indiana; plans on file at Western National Bank, Oklahoma City, Okla. Proposals will be received for complete erection of building, contractor to furnish material; also for complete erection of building, material to be furnished by committee.

Atlanta, Ga.—St. Anthony's Catholic Church, Rev. O. N. Jackson, pastor, will erect edifice to cost \$25,000.

Baltimore, Md.—Eutaw Methodist Protestant Church, Green lane, near Harford road, Rev. W. B. Judefind, pastor, will erect edifice on Mayfield avenue, between Harford road and Kenly avenue; Gothic architecture; frontage, 47 feet; depth, 85 feet; one story; brick; stone trimmings; slate roof; electric lighting; steam heat; cost \$12,000; plans being prepared by John F. Forsythe, 232 St. Paul st., Baltimore; contract awarded to Reinicker & Burton.

Baltimore, Md.—Grace M. E. Church, Carrollton Ave. and Lanvale St., will expend from \$9000 to \$10,000 for repairs, including frescoing, decorating, etc., and exterior work; George R. Grose, pastor, 1119 West Lanvale St.

Berkley Station, Norfolk, Va.—Hebrew Congregation is having plans prepared for synagogue. Address The Rabbi, Hebrew Church.

Bowling Green, Ky.—Baptist Church, H. H. Denhardt, chairman, is having plans prepared by George L. Lockhart, Nashville, Tenn., for \$20,000 edifice.

Brunswick, Ga.—St. James' Lutheran Church, Rev. S. L. Nease, pastor, approved plans for edifice; brick; pressed-brick front and trimmings; cathedral windows and towers; seating capacity 350; cost \$12,000.

Churchland, Va.—Churchland Baptist Church, W. W. Savage, pastor, is having plans prepared by Neff & Thompson, Nor-

folk, Va., for edifice to replace structure recently reported burned.

Columbus, Ga.—Baptist congregation has distributed plans and specifications among contractors for bids on proposed remodeling of edifice; cost \$20,000. Address The Pastor, First Baptist Church.

Danville, Va.—Mount Vernon Methodist Church awarded contract to Dietrick & Pearson of Danville for remodeling main auditorium of church and erection of Sunday-school building; latter to be two stories and basement; first floor to provide space for lecture-room, with seating capacity of 250, primary department to accommodate 150, men's Bible class room to seat 200, library, etc.; second floor provides for directors' room, 14 classrooms, etc.; expenditure \$30,000.

Dickson, Tenn.—Christian Congregation purchased site for \$1100 on which it is contemplated to erect edifice. Address The Pastor, Christian Church.

Fort Worth, Texas.—Broadway Presbyterian Church will rebuild edifice lately reported burned; Rev. Robert L. Cowan, assistant pastor.

Fort Worth, Texas.—Broadway Baptist Church will rebuild edifice recently reported burned; W. B. Harrison and others compose building committee.

Henning, Tenn.—Methodist Church, Rev. S. H. Blackwell, pastor, contemplates erecting brick edifice to cost \$10,000.

Houston, Texas.—Episcopal Church has had plans prepared for edifice; artificial brown-stone base; hollow brick walls; cement plastered exterior; leaded glass windows; cost \$15,000. Address The Pastor, Trinity Episcopal Congregation.

Millen, Ga.—Methodist Episcopal Church, Isaac P. Tyson, pastor, has had plans prepared by W. B. Camp, Jacksonville, Fla., for \$15,000 edifice; colonial style; 50x97 feet; one story; brick; copper dome; steam heat; electric lighting; plans with W. S. Godbee, secretary, Millen; bids opened June 1.

Montgomery, Ala.—Episcopal Church of Ascension reported as having had plans prepared by Cram, Goodhue and Ferguson of New York and Boston for edifice; limestone; Gothic style of architecture; site 200x175 feet; cost \$40,000; David W. Fuller is secretary of congregation.

Morven, N. C.—Presbyterian Church is planning to erect edifice. Address The Pastor, Presbyterian Congregation.

Norfolk, Va.—Christ Episcopal Church in Ghent decided to reduce cost of edifice from \$120,000 to \$103,500 by omitting some of ornamentation and completing tower only to apex of roof; E. Tatterson of Norfolk has contract for piling foundation at \$6500; also for cutting off piles and building foundation to street level in concrete at \$9000, and for superstructure, with tower incomplete, at \$88,000; Watson & Huckel, Philadelphia, Pa., prepared plans. (Further facts recently mentioned.)

Prescott, Ark.—Building Committee, Christian Church, has not yet awarded contract for erection of proposed \$4000 edifice; ordinary construction; 50x40 feet; electric lighting.

Richmond, Va.—St. Paul's Church contemplates erecting steel spire to cost \$9000. Address The Pastor, St. Paul's Congregation.

Russellville, Ala.—Baptist Congregation will erect edifice to cost \$10,000. Address The Pastor, First Baptist Church.

San Antonio, Texas.—Methodist Congregation at Laurel Heights proposes to erect edifice to cost \$50,000. Address City Mission Board.

Spring Hope, N. C.—Baptist Church will erect edifice. Address The Pastor, Baptist Congregation.

Spring Hope, N. C.—Methodist Congregation will erect edifice. Address The Pastor, Methodist Church.

Spring Hope, N. C.—Episcopal Congregation will erect edifice. Address The Pastor, Episcopal Congregation.

Versailles, Ky.—Baptist Congregation will expend about \$6000 in improvements to edifice and erection of brick annex for Sunday-school. Address The Pastor, Baptist Church.

### COURTHOUSES

Ardmore, Okla.—Carter county will vote on issuance of \$125,000 courthouse bonds. Address County Commissioners.

Crowell, Texas.—Foard county is considering issuance of \$60,000 of bonds for erection of courthouse. Address County Commissioners.

Fort Pierce, Fla.—St. Lucie County Commissioners will receive bids for building courthouse until May 17; plans and speci-

cations at office of W. C. Lewman & Co., Louisville, Ky., and of J. E. Fultz, clerk County Commissioners.

Macon, Ga.—Bibb county is considering plans and specifications for remodeling courthouse. Address County Commissioners.

Moorefield, W. Va.—Hardy county has engaged Branson Snider, Wardenaville, W. Va., to prepare plans for courthouse at Moorefield.

Nashville, Tenn.—C. K. Colley of Nashville will prepare plans for remodeling courthouse; appropriation \$75,000. (Recently mentioned.)

Orange, Va.—Supervisors of Orange County contemplate erection of annex on eastern and western sides of courthouse, remodeling of jail and installation of heating plant for heating both buildings; expenditure, \$15,000.

Palatka, Fla.—Putnam County Commissioners accepted plans and specifications by Robinson & Rely, St. Augustine, Fla., for proposed courthouse; bond issue amounting to \$50,000 available.

Pineville, W. Va.—Wyoming county has defeated \$50,000 bond issue for erection of courthouse recently mentioned; reported that County Court will increase tax assessment and proceed to erect courthouse. Address County Commissioners.

### DWELLINGS

Baltimore, Md.—Charles H. Gerwig, Fidelity Bldg., has had plans prepared by Jacob F. Gerwig, 210 East Lexington St., Baltimore, for nine dwellings on Orem Park place; three stories; brick; 17x70 feet; colonial style; porch and bay windows; cost \$60,000.

Baltimore, Md.—Provident Realty Corporation, 230 St. Paul St., has had plans prepared by Henry J. Tinley, 314 North Charles St., Baltimore, for residence at Walbrook recently mentioned; 3½ stories; frame; 30x42 feet; 11 rooms, bath and pantry; hot-water heat; gas and electric lights; cost \$5000; owner is builder.

Baltimore, Md.—John F. Carter, Park Heights Ave. near Glenn Ave., has had plans prepared by Jacob F. Gerwig, 210 East Lexington St., Baltimore, for 10 dwellings on Belmont avenue, recently mentioned; two stories; brick; 14x52 feet; steam heat; electric lights; foundations heavy bluestone laid in cement; cost \$25,000.

Baltimore, Md.—Henry Hahn, 2301 East Oliver St., awarded contract to John Miller, Baltimore, for erection of three dwellings on Oliver street; two stories; 18x50 feet; cost \$4000; plans by S. Gordon Hopkinson, Baltimore.

Baltimore, Md.—Mrs. James M. Maslin awarded contract to John E. Marshall & Son, 121 Mercer St., Baltimore, for residence at 1304 St. Paul street; 27x115 feet; three stories; brick, with stone trimmings; front and one side will be Pompeian brick; one bay window; cost \$35,000; plans by Howard Sill, Keyser Bldg., Baltimore.

Baltimore, Md.—W. F. Parker, 2105 North Charles St., will erect residence at Lenox, to cost \$8000.

Baltimore, Md.—Frederick Kramer, 2500 Francis St., has purchased site 75x142 feet at Lenox, and will erect \$9000 residence.

Baltimore, Md.—Frederick Bauernschmidt, 2450 Eutaw Place, will erect addition to dwelling; two stories; brick; stone trimmings; 12x38 feet; cost \$4000; plans by Henry Graw, Baltimore.

Baltimore, Md.—Bartlett S. Johnson, Stock Exchange Bldg., awarded contract to McLaughlin Bros., 100 E. Lexington St., Baltimore, for erection of residence on Cloverdale road; two and a half stories, with basement; 47x43 feet; ornamental buff brick; stone trimmings; interior finished in marble and tile; parquet floors; large porch; several bay windows; reinforced concrete foundation; slate roof; electric lights; steam heat; cost \$15,000.

Baltimore, Md.—Walter S. Mueller, 1 Allen Ave., has had plans prepared by J. Mueller, 1301 W. Cross St., Baltimore, for 10 dwellings on Allen avenue, recently mentioned; two stories; brick; 25x27 feet; heavy blue stone foundation; slate roof; cost \$20,000.

Baltimore, Md.—Forest Park Co., 601 Maryland Telephone Bldg., awarded contract to John F. Hardy, Groveland and Eldorado avenues, Baltimore, for erection of two cottages at Forest Park; one colonial and one old English style; foundations, stone laid in cement; frame; slate roofs; walls hand decorated; large porches; living-rooms, 14x25 feet; each house to have 10 rooms and bath; cost \$7000 each.

Bartow, Fla.—W. B. Swearingen will erect residence.

Beaumont, Texas.—M. Hecht awarded con-

tract to J. Attenhoffer, Beaumont, for \$7000 residence; plans by H. C. Banker, Orange, Texas.

Birmingham, Ala.—W. L. Sessions has plans prepared by D. O. Whildin, 711 Title Guarantee Bldg., Birmingham, for \$4000 dwelling of ordinary construction; 30x34 feet; hot-air heat; electric lighting; contract not let.

Catonsville, Md.—Eden Construction Co., Victor G. Bloede, president, awarded contract to Charles H. Gerwig, Fidelity Bldg., Baltimore, Md., for three dwellings on Eden Terrace, recently mentioned; ordinary construction; 12 rooms each; hot air or water heat; gas and electric lights; cost \$5000 each; plans by Paul B. Tuzo, 11 E. Pleasant St., Baltimore, Md.

Charlotte, N. C.—George H. Brockenbaugh, recently noted to erect dwelling of colonial construction, has not decided on plans or time of erection; probably 10 rooms; cost \$10,000.

Chattanooga, Tenn.—J. R. Ryan, 317 East 8th St., will remodel frame dwelling; cost \$4000; concrete veneering; new porches, with cement floors and steps; roofing not decided.

Chattanooga, Tenn.—R. Toombs Wright, Temple Court, owner, will erect \$4000 two-story frame dwelling on McCalle avenue; shingle roof; hard pine interior finish; cabinet mantels; plumbing; gas and electric lighting; construction commenced.

Chattanooga, Tenn.—D. B. Loveman, 800 Market St., awarded contract at \$5700 to J. H. Orr, Chamberlain Bldg., Chattanooga, for remodeling residence at 407 E. Fifth St.; interior decorations; new portico, 14x60 feet, with 12 Ionic columns, each 26 feet high, 2½ feet diameter at base; tile floor to portico and bathrooms; first story, oak floors; new lighting fixtures and electrical wiring; probably hot-water heating plant; plans by Charles E. Bearden, Chamberlain Bldg., Chattanooga.

Chattanooga, Tenn.—Hon. M. M. Allison, The Elizabeth, Chattanooga, awarded contract to Adams & Schneider, 120½ East Eighth St., Chattanooga, for erection of \$15,000 residence at Riverview (suburb); two stories, basement and attic; brick and stucco, with tile roof; oak and mahogany interior finish; vacuum system vapor heating; tile paving to porches and terraces; electric and acetylene gas lighting. (Previously noted.)

Chattanooga, Tenn.—Chas. E. Bearden, architect, Chamberlain Bldg., will erect for himself a \$7000 residence at Riverview (suburb); probably no general contract awarded.

Columbia, Tenn.—W. M. Tolley, Chattanooga, Tenn., will erect residence in Columbia.

Columbus, Ga.—C. Armory Dexter is having plans prepared by T. F. Lockwood, Columbus, for \$3000 residence.

Cumberland Gap, Tenn.—J. Frank White will erect bungalow; plans by R. F. Graf, Knoxville, Tenn.; fireplaces; cost \$5000.

Fayetteville, N. C.—First Presbyterian Church will award contract April 20 for erection of \$4000 manse after plans by Robert Eisenschmidt, Fayetteville; mill construction; eight rooms; hot-water heat; electric lighting. (Recently mentioned.)

Georgetown, Ky.—E. B. Smith Land Co. awarded contract to Penn Lumber Co., Georgetown, for erection of three dwellings; lower story pressed brick, second story shingle exterior.

Graham, Va.—R. K. Morton awarded contract to Baker & Wells, Graham, for erection of residence.

Gregory, Texas.—Charles P. Taft will erect residence, with garage, barns, etc.; construction has begun.

Hattiesburg, Miss.—Sheriff Magruder will erect \$4000 residence.

Highland Park, Station Chattanooga, Tenn. R. Toombs Wright, Temple Court, owner, will erect two one-story frame dwellings on Lyerly street; shingle roof; hard pine interior finish; cabinet mantels; plumbing; gas and electric lighting; construction commenced.

Johnson City, Tenn.—S. E. N. Moore awarded contract to J. K. Janes for erection of brick dwelling recently mentioned; two stories and basement; hot-water heat; electric lighting; cost \$5000 to \$6000; plans by W. P. R. Pember.

Laurinburg, N. C.—Clarence Lytch will open bids May 1 for erection of residence recently mentioned; two stories; six rooms; reception hall and kitchen; ordinary frame construction; electric lighting; cost \$3500; plans by Robert Eisenschmidt, Box 265, Fayetteville, N. C.

Lexington, Ky.—C. R. Thompson, 421 West 3d St., will open bids about May 1 for erection of \$8000 two-story dwelling recently men-

tioned; 36x44 feet; ordinary construction; hot-air heat; gas and electric lighting; plans by F. L. Smith.

Little Rock, Ark.—John S. Braddock will erect six \$3000 residences.

Magnolia, Miss.—W. T. Caldwell has had plans prepared by and awarded contract to W. W. Easley, Magnolia, for erection of \$3000 residence.

Maryville, Tenn.—George Benedict will erect residence to replace structure reported burned; loss \$4000.

Nashville, Tenn.—John T. Landis, care of Landis Banking Co., Stahlman Bldg., will erect suburban residence to cost \$17,000 to \$20,000. (See "Machinery Wanted.")

Nashville, Tenn.—E. A. Lindsey has had plans prepared by C. K. Colley, Nashville, for residence; two stories, basement and attic; faced with gray vitris brick; Bowling Green stone trimmings; front porch of Bowling Green stone with concrete floor; rear porch enclosed with glass; green enameled tile roof; heavy projecting cornices supported by heavy Ionic medallions in dual groups, placed on six-foot centers; two-light windows, plate glass; casement windows bevel plate set in copper; four bathrooms; hot-water heat; cost \$15,000, exclusive of frescoing and decorating.

New Orleans, La.—K. W. Hess awarded contract to H. C. Deckbar, 327 Hennen Bldg., for erection of \$4000 two-story residence; slate roof; hot-air heat; plans by owner.

Ocean Springs, Miss.—John B. Honor, New Orleans, La., will erect residence at Ocean Springs.

Oklahoma City, Okla.—C. O. Russell will erect \$17,500 residence.

Paris, Texas.—R. F. Scott will erect residence; brick facing; stone trimmings; cost \$30,000.

Pine Bluff, Ark.—John Reap will erect residence; bungalow style.

Portsmouth, Va.—E. L. Barlow will erect residence.

Quitman, Ga.—Saml. S. Rountree awarded contract to Lee & McDonald, Thomasville, Ga., for erection of proposed two-story dwelling; 42x54 feet; light brick veneer; metal roof; electric lighting; cost \$7000; plans by W. B. Camp, Jacksonville, Fla. (See "Machinery Wanted.")

Quitman, Ga.—W. W. Walker is having plans prepared by L. A. H. Koeth, Wilmington, N. C., for residence; colonial style; frame construction; two stories; metal shingles for roof; hard plaster; plate glass; venetian blinds; cost \$6000; bids for construction to be received by architect from April 19 to April 26.

Richmond, Va.—I. Cohen, care of Cohen Company, Broad St., contemplates erection of \$10,000 to \$20,000 dwelling on Cary-street road near Richmond.

Roanoke, Va.—H. M. Miller, architect, Roanoke, has completed plans for \$11,000 dwelling at Roanoke street and Tenth avenue; pressed-brick facing; stone trimmings; slate roof; hot-water heat; gas and electric lighting; plumbing; colonial design; owner's name not given.

Sapulpa, Okla.—Warren H. Brown will erect residence.

Sapulpa, Okla.—Frank Smith will erect \$5000 residence.

Sapulpa, Okla.—H. C. Wagner will erect \$5000 residence.

South Pittsburg, Tenn.—L. B. Sartain will remodel residence at cost of \$3000; plans by R. B. Patton, Times Bldg., Chattanooga; two-story structure; brick and stucco; metal-shingle roof; hard-pine interior finish; cabinet mantels; plumbing; electric lighting.

Stevenson, Md.—Charles H. Croft will erect colonial residence near Stevenson.

St. Louis, Mo.—Henry W. Peters will erect two dwellings to cost \$50,000.

St. Petersburg, Fla.—W. Davis will erect \$10,000 residence.

Vinita, Okla.—Morris Knight will erect \$15,000 residence.

Washington, D. C.—Isaac T. Mann, 1600 Massachusetts Ave. N. W., has purchased site at 16th and R streets N. W., and will, it is reported, erect \$200,000 residence.

Washington, D. C.—John B. Henderson, 1601 Florida Ave. N. W., has had plans prepared by George Oakley Totten, Jr., 808 Seventeenth St. N. W., Washington, for residence on Sixteenth street; Elizabethan type; five stories; 32x80 feet; rough red brick, with limestone trimmings; English basement; entrance ornamented with carved stonework; loggia and piazza on third floor; interior trimmed with hardwood panels; large stone fireplaces in salon, drawing and dining rooms; massive stairways, ornamented with carved balustrades.

Washington, D. C.—Joseph Thropp, 1701 20th St. N. W., will erect two dwellings at 19th and R streets N. W.

Washington, D. C.—James L. Parsons, Union Trust Bldg., has had plans prepared by A. P. Clark, Jr., also of Union Trust Bldg., for residence at 1012 Massachusetts avenue northeast; Colonial type; three stories; rough red brick; Indiana limestone trimmings; front ornamented with three stone columns set flush with face of building; large double doors, fitted with plate glass panels, will connect three main rooms on first floor; parlor and reception hall trimmed in white enamel, with mahogany-finish doors; dining-room trimmed with oak; size 20 feet 7 inches by 75 feet; cost \$12,000.

Washington, D. C.—Franklin T. Sanner, 1305 G St. N. W., will erect residence at Connecticut avenue and Calvert street; Colonial style; three stories; light brick; stone trimmings; slate roof; frontage 42 feet; wood-work finished in white enamel and doors in mahogany; hardwood floors in principal rooms. (Recently mentioned.)

Washington, D. C.—Mrs. Beriah Wilkins awarded contract to W. P. Lipscomb & Co., 1405 F St. N. W., Washington, for erection of residence at Massachusetts avenue and 17th street northwest; previously mentioned; cost \$100,000; plans by Bruce Price & De Sibour, 1135 Broadway, N. Y.

Webster Groves, Ind. Station, St. Louis, Mo.—Mrs. Nellie D. Kauffman awarded contract to Frederick Howell, St. Louis, for erection of residence at Webster Groves; frame; one story; bungalow type; cost \$15,000.

Wheeling, W. Va.—Elmer Meagle, Jr., is having plans prepared by Geo. H. Dieringer, Wheeling, for eight-room residence at Loveland; cost \$2700.

Wheeling, W. Va.—E. O. Grimm, Glenova, W. Va., will erect nine-room residence at Warwood; cost \$3000; plans by George H. Dieringer, Wheeling.

Wheeling, W. Va.—Dr. J. O'Kain is having plans prepared by Geo. H. Dieringer, Wheeling, for eight-room residence to cost \$3000.

Wheeling, W. Va.—J. W. Wieler will erect colonial residence at South Warwood; 12 rooms, finished basement, etc.; cost \$6000; plans by Geo. H. Dieringer.

Wheeling, W. Va.—Joseph O'Brien is having plans prepared by Geo. H. Dieringer, Wheeling, W. Va., for mansard-roof residence at Loveland; eight rooms; cost \$3200.

Wheeling, W. Va.—E. V. Gillies will remodel residence on 48th street; cost \$2800; plans by Geo. H. Dieringer, Wheeling.

Wheeling, W. Va.—E. H. Meagle, Sr., will erect eight-room frame residence at Loveland; cost \$2800; plans by Geo. H. Dieringer, Wheeling.

## GOVERNMENT AND STATE BUILDINGS

Dallas, Texas—Coliseum.—Erection of coliseum on State Fair Park Grounds is being considered; expenditure to be \$80,000; H. H. Adams can be addressed.

Dothan, Ala.—Postoffice.—Pharrow Construction Co., Atlanta, Ga., is lowest bidder at \$81,500 for erection of U. S. Postoffice at Dothan. (Recently mentioned.)

Fort Dodge, Station Egmont, Fla.—Bids will be received at office of Constructing Quartermaster until May 10 for construction, plumbing and electric wiring of two company officers' quarters, two non-commissioned officers' quarters, one wagon shed, one fire station, and porches for four officers' quarters; plans, specifications and required papers furnished on application, which is to be accompanied by certified check for \$5.

Jefferson City, Mo.—Capitol.—Senate adopted resolution to submit to vote proposition of issuing bonds, not to exceed \$5,000,000, for erection of capitol; Herbert S. Hadley, Governor.

Little Rock, Ark.—Capitol.—State Senate adopted bill passed by House of Representatives deciding that work begin anew on construction of proposed \$1,000,000 Arkansas capitol; bill appropriates amount necessary to complete building; John S. Little, Governor.

## HOTELS

Baltimore, Md.—Union Hotel Co. awarded contract to J. Elmer Stanfield of Thomas B. Stanfield & Son, 109 Clay St., Baltimore, for enlargement of Hotel Caswell, Baltimore and Hanover Sts.; four additional stories will be erected on annex, which adjoins main building, making it seven stories high; this addition will provide 48 sleeping-rooms and 24 baths; expenditure \$60,000; plans by John R. Forsythe, 232 St. Paul St., Baltimore. (Recently mentioned.)

Bristol, Tenn.—J. M. Barker awarded contract to Luke Low of Bristol for erection of annex to St. Lawrence Hotel, recently mentioned; three stories; brick; 75x85 feet; concrete foundations and basement; buff pressed-brick front; stone and terra-cotta trimmings; steel girders; polish plate; Luxfer prism glass; two large steel doors; fire escape; hardwood finish; electric lighting; steam heat; all rooms to have baths; plans by Burnett & Owen of Bristol.

Greenville, S. C.—L. M. Hubbard, promoter of electric line to Paris Mountain, proposes to erect hotel and establish amusement park on the mountain.

Griffin, Ga.—Griffin Realty Co. (J. W. Gresham and others) will erect building recently mentioned; combination hotel, office and business structure; 150x210 feet; hotel entrance front, also stores covering 150 feet; cost \$100,000; architect not definitely selected.

Holland, Texas.—J. W. Thompson will erect 30-room brick hotel to replace burned structure.

Irvington, Ky.—Dr. L. B. Moremen reported to erect office building and apartment-house.

Laurel, Miss.—T. N. Clark, proprietor Hotel Hutto, has not definitely decided upon rebuilding of burned hotel. (Recently mentioned.)

Lookout Mountain, Tenn.—Lookout Mountain Railway Co., John Graham, president, Chattanooga, Tenn., contemplates constructing 150-room hotel on top of Lookout Mountain and incline railway; David Stroop of Chattanooga has been engaged to survey site and submit prospective drawing of hotel; Mr. Stroop suggests erection of three-story fireproof building with flat roof, to be used as roof garden; site has frontage of 250 feet and depth of 300 feet.

Newton, Miss.—J. F. Wilder and Dr. Harrison, Epps, Miss.; Dr. H. L. Flake, A. P. Daughdrill, Hattiesburg, Miss., and others are interested in organization of Newton Liquid Mineral Co.; to erect hotel and sanitarium; capital stock, \$100,000.

Passagrille, Fla.—Mr. Hollenbeck of Hollenbeck Hotel, St. Petersburg, Fla., is interested in erection of 20-room hotel at Passagrille.

Pensacola, Fla.—Pensacola Development & Construction Co., H. P. Ball, president, reported as contemplating erection of hotel at Beach Haven.

Plainview, Texas.—J. N. Donohoo awarded contract to Globe Construction Co., Salinas, Okla., for erection of building recently mentioned; three stories; reinforced concrete; part of first floor to be occupied by Citizens' National Bank; remainder for hotel; hotel will be provided with steam heat, electric lighting, telephone in each room, etc.

Raleigh, N. C.—Stevens Construction Co., Wilmington, N. C., has contract to build new front and remodel Yarrowburgh Hotel at Raleigh.

Sapulpa, Okla.—E. L. Workman will erect three-story hotel.

Savannah, Ga.—City Council accepted proposition of Harvey Granger contemplating opening of tract of land in southern part of city and erection of tourist hotel; Chatham Land & Hotel Co., under terms of agreement, will donate to city all land required for streets and lanes, site for hotel and pumping station; latter is to be erected by company at cost not exceeding \$7000; hotel site is decided to city with condition that if at end of five years hotel, costing not less than \$350,000, is not built there city may use land as park, holding it still available for hotel; if at end of 20 years no hotel is built, city may hold it longer for hotel or continue as park; city agrees to open and grade various streets in vicinity of Estill avenue and to construct storm sewerage system. John W. Howard, City Engineer. (Recently mentioned.)

Scottsville, Va.—I. L. Pitts and James F. Dorviev will erect 30-room hotel; to contain one store.

St. Augustine, Fla.—Mr. Monson contemplates improvements to the Monson House, including addition and bathrooms.

Vinita, Okla.—Morris Knight is having plans prepared by Tulsa (Okla.) architects for hotel in Vinita; four stories and basement; fireproof; roof garden; cost \$100,000.

Texas City, Texas.—The Texas City Company, William Moore and J. H. Selber, is interested in erection of hotel; 40 rooms; three stories; brick; cost \$20,000.

Walhalla, S. C.—J. D. Verner, owner, will remodel Walhalla Hotel; reported that main part of structure is to be increased to three stories; first floor to be lowered 16 inches; entrance to have vestibule with iron or concrete pillars as supports and cement tile



flooring; present L. on Main street to be replaced with two storerooms; work in progress on concrete foundation and pillars for 3000-gallon water tank.

Washington, D. C.—Riggs estate is reported to utilize building on 15th street between F and G streets, purchased from National Metropolitan Bank, in enlarging Riggs House adjoining, of which O. G. Staples is proprietor; structure has frontage of 60 feet.

Ybor City, Station Tampa, Fla.—Clarkson Bros. awarded contract to Frisbie & McGucken of Tampa for erection of composition-stone hotel and restaurant building, to cost \$15,000.

### MISCELLANEOUS STRUCTURES

Anacostia, Station H, Washington, D. C.—Business Building.—John Appich, 1309 11th St. S. E., Washington, has had plans prepared by Joseph A. Bohn, Jr., 215 D St. N. W., Washington, for business building at Anacostia; two stories; brick; 35x50 feet; steel construction.

Atlanta, Ga.—Business Building.—Asa G. Candler will erect \$100,000 business building.

Baltimore, Md.—Store and Dwellings.—B. W. & E. Minor will erect two two-story brick structures on Garrison avenue for stores and dwellings; 20x64 feet; hot-water heat; cost \$5000; plans by A. L. Forrest, Professional Bldg., Baltimore.

Baltimore, Md.—Stable.—George Blome & Son, 617-621 West Baltimore St., have had plans prepared by Alfred Mason, 746 West Baltimore St., Baltimore, for stable at 10 and 12 Penn street; 30x73 feet; three stories; brick; mill construction; stall accommodations for 100 horses; concrete foundation; slag roof.

Baltimore, Md.—Frederick Bauernschmidt, 2450 Eutaw Pl., has had plans prepared by Henry Graw, Baltimore, for garage in rear of dwelling; two stories; ornamental brick and stone; 32x80 feet; cement flooring; terra-cotta roof; cost \$5000.

Birmingham, Ala.—Store Building.—Drennen & Co. will, it is reported, erect store building; 9 to 15 stories.

Broussard, La.—Convent.—Rev. Father Broussard awarded contract to August Fuesel, San Antonio, Texas, for erection of convent building; 75x53 feet; three stories; brick; stone trimmings.

Brundidge, Ala.—Store Buildings.—Fletcher Bass awarded contract to L. D. Ogletree, Brundidge, for erection of three store buildings.

Clarendon, Va.—Lodge Building, etc.—Columbia Lodge, A. F. & A. M., awarded contract to J. D. Knight, Alexandria, Va., for erection of two-story store and lodge building; 46x85 feet; brick and tin; electric and gas lighting; cost \$9000; plans by Harding & Upman, 725 15th St. N. W., Washington, D. C.

Dallas, Texas.—Business Building.—E. H. Ray will erect business building; three stories; brick; cost \$20,000.

Douglas, Ga.—Hospital.—Douglas Hospital Association organized with Frank L. Sweat president, John M. Hall vice-president and general manager, Wesley Roberts secretary and treasurer; will erect hospital building; two stories; brick; 30 rooms; cost \$12,000.

Durant, Okla.—Lodge Building.—Durant Lodge No. 33, I. O. O. F., and Woodmen of the World, Lignumvitae Camp No. 558, awarded contract to A. H. 875 to Dane & Biffie, Durant, for erection of lodge building recently mentioned; two stories; brick; 45x110 feet; pressed-brick front; concrete columns and finish; electric lights; plans prepared by W. A. Stephens, Durant.

Erwin, Tenn.—Department Store.—J. F. Toney had plans prepared by C. G. Mitchell, Johnson City, Tenn., for brick department-store building recently mentioned; two stories; 26x165 feet; furnace heat; electric lighting; cost \$10,000.

Fort Worth, Texas.—Store Building.—W. C. Stripling will erect store building to replace present structure; five stories and basement; brick, finished with hydraulic pressed brick with white enamel finish; 132,500 square feet of floor space; 360 feet of plate-glass windows on first floor; hard maple floors; exhaust fan system of ventilation; private sewer system; steam heat; two passenger and one freight elevators; gravity chutes from each floor to basement, also from street to basement; construction has begun.

Gadsden, Ala.—Jail.—Etowah county has accepted plans by Structural Steel Co., San Antonio, Texas, for proposed jail building at Gadsden; five stories, including basement and tower; first floor to contain reception-room and living-rooms of jailer and sheriff; second floor, steel cells for 96 prisoners; tower will be used for hospital for insane; red pressed brick; white stone trimmings; cost \$30,000. (Recently mentioned.)

Galveston, Texas.—Bathhouses.—Murdoch Bathhouse Co. incorporated with \$35,000 capital stock by C. W. Gill, Albert Shafer and J. J. Davis.

Griffin, Ga.—Business Building, etc.—Griffin Realty Co. will erect \$100,000 hotel, office and business building. (See "Hotels.")

Hartsville, S. C.—Store.—J. L. Coker & Co. is having plans prepared by Wilson, Sompayrac & Urquhart, Columbia, S. C., for department store recently mentioned; one-story building; approximately 150x200 feet; style of construction, heating and lighting undecided; cost \$50,000; plans to be matured in about 30 days.

Haskell, Texas.—Store Building.—Smith & Southland will erect store building; two stories; brick; cost \$8000; D. Scott, Haskell, contractor.

Haskell, Texas.—Jail.—Haskell county jail building, contract recently noted awarded to Southern Structural Steel Co., San Antonio, Texas, will be three-story brick structure; 42 feet 7 inches by 52 feet 10 inches; steam heat; electric lighting.

Hennessey, Okla.—Business Building.—John Smith, president of First National Bank, will erect brick business building.

Hot Springs, Ark.—Auditorium.—Business Men's League contemplates erection of auditorium for public meetings, etc.; estimated cost \$12,050.

Houston, Texas.—Lodge Building.—Knights of Pythias will erect lodge building, to cost \$75,000; Jesse C. Dudley, chairman of committee.

Jackson, Miss.—Orphans' Home.—Mississippi Orphans' Home, M. E. Church South, will open bids late in May (date not fixed) for erection of proposed buildings; brick structure for 75 children, school building for 200 pupils, and dormitory; steam heat; electric lighting; cost \$25,000; plans by W. S. Hull, Jackson, Miss.

Kansas City, Mo.—Stores and Apartment Buildings.—H. E. Williams will erect store and flat building; 55x70 feet; two stories; cost \$10,000.

Keyser, W. Va.—Stable.—Potomac Milling & Ice Co. will erect stable; three stories; brick; 100x100 feet.

Louisville, Ky.—Stores, etc.—Broadway Investment Co., H. J. Scheirich, president, 704 Louisville Trust Bldg., awarded contract to General Construction Co. of same address for erection of four-story apartment building to contain four stores. (See "Apartment-houses.")

Madisonville, Tenn.—Jail.—Monroe county has levied tax for erection of jail building and sheriff's residence; two stories; 36x70 feet; ordinary fireproof construction; steam heat; grates; cost \$7500; bids to be advertised; plans by Baumann Bros., Knoxville, Tenn. W. A. Ghorrmey, clerk, may be addressed for building committee.

Maryville, Tenn.—Store Building, etc.—W. B. Lawrence & Co. and Ellis, Chandler & Co. have had plans prepared by M. E. Parmelee & Son, Knoxville, Tenn., for \$14,000 store, office and lodge building; 60 feet 8 inches by 140 feet; brick; party wall in middle; basement; two stores first story; offices and lodge hall above; contract awarded to Jasper Henry, Maryville.

Memphis, Tenn.—Business Building.—Horn Bros. have purchased residence and office building; will convert into four-story business building.

Memphis, Tenn.—Hospital.—Shelby county will erect tuberculosis hospital at county poorhouse; cost \$12,000. Address County Commissioners.

Meridian, Miss.—Cathedral.—Scottish Rite Masons are having plans prepared by P. J. Krouse, Meridian, for cathedral; English Gothic style, with flat arches and lintels, battlements and mullioned windows; dark red vitrified brick; white stone trimmings; four principal emblems of rite to be worked in front of building; basement under entire building to contain swimming-pools, shower baths, gymnasium, etc.; cost \$75,000.

Meridian, Miss.—Store Building.—Meyers Bros. awarded contract to Richardson & Hancock, Meridian, for rebuilding burned store building; three stories; pressed brick with ornate stone trimmings; iron cornices; electric elevator; electric lighting; cost \$7000; plans by P. J. Krouse, Meridian. (Recently mentioned.)

Montgomery, Ala.—Clubhouse.—Country Club will receive bids until May 1 for erection of addition to clubhouse, to cost \$7500; Wm. H. Thomas, chairman of building committee.

Moorefield, W. Va.—Store Building.—A. W. Harper will erect store building to replace burned structure.

Nashville, Tenn.—Clubhouse.—Nashville Athletic Club is planning to issue \$10,000 of bonds to erect proposed \$25,000 clubhouse; four stories; will contain swimming pool, 20x60 feet; reading-room; bowling alleys; gymnasium, 46x74 feet, etc. (Recently mentioned.)

New Orleans, La.—Clothing and Shoe Store.—Baltimore Shoe & Clothing Co., R. Switzer, president, had plans prepared by Andry & Bendernagel, New Orleans, La., for remodeling building at 838-844 Poydras street, recently mentioned; three-story brick structure; 60x100 feet; alterations to cost \$7000; contract to be awarded early in May; Levi Jacobs, vice-president, 409 St. Charles.

Norfolk, Va.—Y. M. C. A. Building.—Young Men's Christian Association, previously noted as having plans prepared by R. E. Mitchell, Norfolk, for association building, will erect seven-story structure; brick, stone and steel; fireproof; hollow terra-cotta and reinforced concrete foundation; fancy terra-cotta roofing; steam heat; electric lights; will contain swimming-pool, gymnasium, bowling alleys, assembly hall and large classrooms; cement flooring; cost \$140,000 for construction; bids will be received until April 20.

Oak Cliff, Station Dallas, Texas.—Orphanage.—Catholic congregations of Dallas Diocese, Bishop Edward J. Dunne, Dallas, is having plans prepared for orphanage to cost \$80,000.

Oklahoma City, Okla.—Business Block.—Oscar Reagen and George McCutcheon will erect business block; three stories; brick; 75x140 feet; cost \$40,000.

Orange, Va.—Jail.—Orange county contemplates expending \$15,000 for improvements to county buildings, including remodeling jail, installation of heating plant and betterment of sanitary condition. Address County Commissioners.

Petersburg, Va.—Y. M. C. A. Building.—Young Men's Christian Association contemplates erection of association home; it is proposed to erect three-story structure, equipped with gymnasium, swimming-pool, baths, bowling alleys, roof garden, etc.; cost \$75,000.

Pine Bluff, Ark.—Business Building.—Graham & McKenzie awarded contract to Monk & Richie, Pine Bluff, for erection of business building recently mentioned; cost \$15,000; plans by Charles Thompson, Little Rock, Ark.

Plaquemine, La.—Business Building.—H. Uhry and A. G. Wutke have awarded contract for erection of two-story brick building.

Raleigh, N. C.—Clubhouse.—Club Construction Co. incorporated with \$100,000 capital stock by E. C. Hillyer, Charles W. Gold, James H. Pou and others.

Ripley, Miss.—Lumber Yard.—Mrs. Paul Chatham, Charlotte, N. C., awarded contract to King Hardware & Lumber Co., New Albany, Miss., for erection of building to be used for retail lumber yard, sash, doors and mill work; structure 49x99 feet; cost \$3500; plans by C. C. Cagle, New Albany, Miss.

Roanoke, Va.—Hospital.—Drs. Lewis & Gale are having plans prepared by H. M. Miller, Roanoke, for hospital building recently mentioned; four stories; fireproof; 40x58 feet; hot-water heat; electric and gas lighting; slag roof; plumbing; cost \$25,000.

Roanoke, Va.—Store and Office Building.—Messrs. Thurman, Pace and Perry Sts., had plans prepared by H. M. Miller, Roanoke, for proposed store and office building; 100x 87½ feet; electric and gas lighting; cost \$30,000; bids are being received.

Rowland, N. C.—Drug Store and Postoffice, Mutual Building & Improvement Co. awarded contract to J. L. Cooper, Rowland, for erection of \$8000 building recently mentioned; two stories; 60x95 feet; for drug store, postoffice and barber shop; plans by Robt. Elsenhardt, Fayetteville, N. C.

Salisbury, Md.—Fair Buildings.—Wicomico County Fair Association will shortly begin erection of main exhibit hall, poultry buildings, cattle sheds and stables on Fair Grounds.

Sapulpa, Okla.—Store and Office Building. Bovaard Supply Co. will erect store and office building; two stories; brick; cost \$50,000.

San Antonio, Texas.—Storehouse.—Hicks & Hicks are receiving bids for erection of four storehouses; plans by Alfred Giles, San Antonio.

San Antonio, Texas.—Fair Buildings.—San Antonio International Fair Association, Vories P. Brown, president, will erect art and educational building, to cost \$12,000.

San Antonio, Texas.—Store Building.—Marshall Hicks will erect five one-story store buildings.

San Antonio, Texas.—Store Building.—G. A.

Stowers awarded contract to Brooks-Gordon Construction Co., Houston, Texas, for erection of store building; eight stories; 86.6x61.6 feet; mill construction; passenger and freight elevators; plans by C. V. Senter, San Antonio, Texas. (Recently mentioned.)

San Marcos, Texas.—Store Building.—Hutchings Hardware Co. awarded contract to Fischer & Lambie, Austin, Texas, for erection of addition to store building; two stories and basement; 60x46 feet; pressed brick; cost \$5000.

Tampa, Fla.—Clubhouse.—Tampa Yacht & Country Club will erect clubhouse; J. Clyde Glenn, Chester MacFarland and J. T. Mahoney, building committee.

Tampa, Fla.—Business Building.—Clarkson Bros. awarded contract to Frisbie & McGucken, Tampa, for erection of business building; artificial stone; cost \$15,000.

Tulsa, Okla.—Business Block.—F. D. Jenkins will erect business block; two stories; brick; cost \$6000.

Vicksburg, Miss.—Hospital.—Charity Hospital awarded contract to R. B. Howard, Vicksburg, for erection of annex to be used by university medical department; three stories; cost \$12,000; plans by Will Stanton, Vicksburg.

Washington, D. C.—Car Barn.—Capital City Traction Co., 26th and M Sts. N.W., will erect addition to car barn on 8th street S. E.; one story; 289x153 feet; reinforced concrete; several concrete girders having span of 48 feet will be used to support portion of roof covering transfer table; at completion of addition old building will be fireproofed; all wooden floors will be replaced with concrete; total cost of improvements, \$100,000.

West Raleigh, N. C.—Y. M. C. A. Building.—Young Men's Christian Association will erect \$15,000 association building.

Wichita Falls, Texas.—Jail.—Wichita county has voted \$15,000 of bonds to erect county jail at Wichita Falls. Address County Commissioners.

Williamsburg, Ky.—Stores, etc.—E. S. Moss, owner, will make plans for and erect brick business building recently mentioned; two stories; 120x80 feet; stores and office.

Winston-Salem, N. C.—Store Building.—H. Montague will erect store building; two stories and basement; 25x75 feet.

### MUNICIPAL BUILDINGS

Albany, Ga.—City Hall.—City will open bids April 13 for erection of city hall; brick and stone; site 85x125 feet; cost of building and site, \$45,000; plans by Robinson & Rely, St. Augustine, Fla.; H. A. Tarver, Mayor. (Recently mentioned.)

Colgate, Okla.—City Hall.—City voted \$50,000 of bonds for city hall, water-works extension and sewer system. Address The Mayor.

Columbus, Ga.—Hospital.—City contemplates voting July 24 on issuance of \$75,000 of bonds to erect hospital. Address The Mayor.

Dallas, Texas.—Fire Stations.—City is considering erection of three fire stations, at Oak Lawn, Oak Cliff and in Tenth ward.

Durham, N. C.—Municipal and Theater Building.—City will open bids April 30 for erection of municipal building and Academy of Music; plans recently noted prepared by Hook & Rogers, 609 Trust Bldg., Charlotte, N. C. (See "Theaters.")

Durham, N. C.—Market.—City awarded contracts to J. E. Dickson & Co. of Durham at \$16,113.72 for erection of city market; 60x164 feet; meat department, 60x101 feet, with 12 stalls; vegetable department, 25x60 feet, and fish, 24x60 feet; each meat stall to have private cold storage; cesspools in floors of each department; wagon shed, 18x154 feet, and another 10 feet wide; interior of building to have six feet of wainscoting and enamel brick; remainder of interior to be finished with impervious brick; exterior of gray impervious brick; roof of clay tiling; walls capped with terra-cotta; conduit system of electric lighting; also gas lights. Hill C. Lathicum of Durham is architect; George W. Woodward, city clerk. (Recently mentioned.)

El Reno, Okla.—City Hall.—City will vote April 27 on \$50,000 bond issue to erect city hall; reinforced concrete. Address The Mayor.

Hagerstown, Md.—City Hall and Market.—William L. Hammond, Mayor, recommended to City Council erection of city hall and market.

Hillsboro, Texas.—City Hall and Fire Station.—City voted \$16,000 of bonds for city hall and fire station. Address The Mayor.

Lynchburg, Va.—Market-house, Hospital, etc.—City contemplates issuance of \$400,000 of bonds for erection of market with audito-

rium above, hospital, etc. H. L. Shaner, City Engineer.

St. Matthews, S. C.—Guardhouse.—City will expend \$2500 to \$3000 in erection of guardhouse recently mentioned; plans by C. F. Zeigler; semi-fireproof construction; brick and cement; two steel cells; iron doors, etc.

Tampa, Fla.—City will vote May 18 on issuance of \$75,000 of bonds for city hall and \$30,000 for hospital. Address The Mayor. (Recently mentioned. See "Road and Street Improvements.")

### RAILWAY STATIONS

Baltimore, Md.—Pennsylvania Railroad Co., James McCrea, president, and A. C. Shand, chief engineer, Broad Street Station, Philadelphia, Pa., has conferred with municipal commission and outlined plan for construction of proposed union station; plan involves alteration of Maryland-avenue and Charles-street bridges and construction of another span to Charles-street bridge; station to include overhead approaches to tracks and passenger elevators; main waiting-room on street level, etc.; station building to be of colonial design and cost over \$1,000,000; other improvements also to cost over \$1,000,000.

Wadesboro, N. C.—Seaboard Air Line, W. L. Seddon, chief engineer, Portsmouth, Va., will erect passenger station at Wadesboro.

West Tampa, Station Tampa, Fla.—Atlantic Coast Line Railroad, E. H. Pleasants, chief engineer, Wilmington, N. C., reported as having approved plans and to award contract within 30 days for erection of proposed freight depot in West Tampa; brick; one story; floor area 40x100 feet; platform running entire length of building, with width of 10 feet; cost \$7000.

Wilmington, N. C.—Seaboard Air Line Railway will erect freight depot at Wilmington. (See "Railway Shops, Terminals, etc.")

### SCHOOLS

Abbeville, Va.—City has voted \$20,000 of bonds for erection of high-school building. Address The Mayor. (Recently mentioned.)

Alton Park, Tenn.—Hamilton County Board of Education, J. A. Hargraves, chairman, care of Prof. J. B. Brown, superintendent county courthouse, Chattanooga, is receiving proposals for erection of \$15,000 school building recently mentioned; two stories and basement; composition roof; concrete floor and steps; hard pine; steam heat; plans by Huntington & Sears, News Bldg., Chattanooga.

Annapolis, Md.—St. John's College, Dr. Thomas Fell, president, has ordered Wyatt & Nolting, Keyser Bldg.; Baldwin & Pennington, Professional Bldg., both of Baltimore, Md., and Ford, Stewart & Oliver, New York, to prepare plans for rebuilding McDowell Hall. (Recently mentioned.)

Augusta, Ga.—City contemplates erection of \$15,000 school building for negroes; 12 or 14 rooms; seating capacity 400 or 500. Address The Mayor.

Augusta, Ga.—Paine Institute, George W. Walker, president, is planning erection of structure for domestic science department; stone and concrete; cost \$25,000.

Bloomington, Texas.—Bloomington District No. 13 has voted \$2500 of bonds to erect school building; Grant Page, trustee.

Blossom, Texas.—City will issue either \$8000 or \$20,000 of bonds for erection of school building. Address The Mayor.

Bowersville, Ga.—City has voted \$10,000 of bonds to erect school building. Address The Mayor. (Recently mentioned.)

Bowman, Ga.—City is having plans prepared by Sayre & Baldwin, Anderson, S. C., for \$6500 school building; four rooms, ground floor; auditorium and two rooms, second floor; brick; bids probably opened May 1.

Byars, Okla.—Bids, addressed to W. E. Tokey, will be received until April 20 for construction and completion of eight-room school building, brick, stone, etc., at Byars; also for steam heating and closets; certified check for \$200, payable to L. Baird, treasurer Board of Education; plans on file at office of Smith & Parr, architects, South McAlester, Okla., and of W. E. Tokey, Granite. (See "Machinery Wanted.")

Cameron, S. C.—City has voted \$10,000 of bonds to erect school building; is having plans prepared by Sayre & Baldwin, Anderson, S. C. (Recently noted.)

Canton, N. C.—City has had plans prepared by Sayre & Baldwin, Anderson, S. C., for \$15,000 school building.

Cave Springs, Ga.—Hearne Academy is planning to expend \$20,000 for erection of buildings and improvements; J. A. Glover,

M. G. McDonald, J. F. Hillyer and others, trustees.

Centralla, Mo.—City has had plans prepared by Fred Ball, Fulton, Mo., for proposed high-school building; pressed brick; metal cornice; slate roof; steam heat; steam ventilating system; will contain eight classrooms and laboratories and auditorium with seating capacity of 600. (\$25,000 bond issue previously noted.)

Charleston, Ark.—City awarded contract to Charles Miller, Charleston, for erection of high-school building; cost \$9500.

Charlottesville, Va.—University of Virginia, F. A. Alderman, president, contemplates erection of athletic clubhouse to cost \$70,000.

Clarendon, Texas.—Clarendon College will erect \$25,000 girls' dormitory; also contemplates erection of boys' dormitory, science hall and other buildings.

Cullman, Ala.—Plans will be received until April 19 for proposed new public school building; two stories and basement; brick; eight classrooms, exclusive of the basement; cost not to exceed \$10,000; George J. Beyer, Mayor.

Dallas, Texas.—City has voted \$200,000 of bonds for school improvements; S. T. Hayes, Mayor. (Recently mentioned.)

Eastover, S. C.—City has had plans prepared by Sayre & Baldwin, Anderson, S. C., for school building to cost \$9000; brick; steam heat; W. J. Rivers, clerk School Board.

Etowah, Miss.—City will erect school building; bond issue recently mentioned will be for amount of \$15,000; J. M. Tillery, Commissioner, Board of Education.

Fayette County, Ky.—Fayette County Board of Education will ask Fiscal Court for \$12,500 to erect four school buildings and repair others; J. R. Lancaster, chairman Board of Education, Lexington, Ky.

Fayetteville, Tenn.—City will vote April 24 on \$20,000 bond issues for erection of school building; if election carries, brick structure will be built; semi-fireproof; steam heat; electric lighting; cost \$20,000; no architect selected; B. E. Hohnan, Mayor.

Glenwood, P. O. Fort Worth, Texas.—Glenwood School District has voted \$23,000 of bonds for school improvements. Address The Mayor.

Granite, Okla.—Bids will be received until April 20 for erection of stone school building at Granite; plans and specifications on file at office of Williams & Wells, architects, Oklahoma City, Okla., and Gooches' hardware store, Granite; K. C. Cox, clerk.

Greenville, Ky.—City will vote April 17 on \$12,000 bond issue for school improvements; T. J. Sparks, T. B. Pannell, Henry Lewis and others, trustees.

Henrietta, Texas.—City will vote on special tax to erect school building to cost \$35,000. Address The Mayor.

Jasper, Ala.—Walker county will establish proposed school at Jasper; will erect building with dormitory, provided with water, sanitary and heating equipment; cost \$20,000. Address County Commissioners.

Jonesboro, P. O. Bessemer, Ala.—City has declared void \$30,000 bond issue recently reported voted, and will vote May 14 on \$15,000 bond issue for school improvements. Address The Mayor.

Kentwood, La.—City will vote May 10 on \$30,000 bond issue to erect school building. Address The Mayor.

Knoxville, Tenn.—City High School building recently mentioned will be erected at cost of \$100,000 on \$50,000 site; as stated, competitive plans from architects will be received until April 20; after plans are selected bids from contractors will be received. Address John E. McMillan, secretary Committee of Superintendents of Public Schools.

Lawton, Okla.—City will receive bids until April 28 for erection of high-school building recently mentioned; certified check for \$5000; plans by Hair & Smith, Chickasha, Okla.; cost \$100,000.

Livingston, Ala.—State Normal School, W. G. Brock, president, will rebuild dormitory recently reported burned; cost \$10,000.

Lynchburg, Va.—City contemplates issuing \$400,000 of bonds to erect four school buildings, market-house, city hospital and for improvements to streets; H. L. Shaney, City Engineer.

Martinsville, Va.—City will erect annex to school building; James B. Bondurant and G. B. Dudley, trustees.

Morven, N. C.—City will vote May 4 on \$8000 bond issue for school improvements; C. W. Thomas, clerk of Board of County Commissioners.

Morgantown, W. Va.—City will vote May 12 on \$100,000 bond issue recently mentioned;

to erect four ward school buildings; A. Layton, Mayor.

Mountain View, Okla.—City will vote on \$15,000 bond issue to erect school building. Address The Mayor.

Newnan, Ga.—City will vote April 17 on \$16,000 bond issue for school improvements; E. D. Fouse, City Clerk.

Newton, Ala.—Newton Baptist College will issue \$16,000 of bonds to erect brick dormitory.

Norfolk, Va.—J. H. Pierce, Norfolk, Va., at \$17,949 for both wings and \$10,934 for one wing, is lowest bidder for erection of addition to Seventh ward school building, recently mentioned; four stories, connected with main building by brick arcades; each wing to have four classrooms to accommodate 50 pupils each; contract includes installation of complete system of modern plumbing for present building and new wings; plans prepared by John K. Peebles, Law Building, Norfolk.

Pocahontas, Va.—Bids will be received until April 21 for erection of school building at Pocahontas; plans and specifications on file at office of W. E. & E. L. Shuffelbarger, Bluefield, W. Va.; J. H. Lawford, chairman building committee, Pocahontas.

Poteau, Okla.—Bokoshe School awarded contract for \$15,000 school building; eight rooms; steam heat.

San Antonio, Texas.—Texas Military Academy has purchased site on Alamo Heights and will erect new buildings to cost \$150,000.

Shandon, P. O. Columbia, S. C.—Bids will be received until April 26 for erection of school building at Shandon; two stories; brick; 65x79 feet; certified check for \$300; plans and specifications may be obtained from Sayre & Baldwin, architects, Anderson, S. C., or at 1206 Main street, Columbia, on deposit of \$5 as guarantee that they will be returned; S. T. Carter, clerk, Columbia, S. C. (Recently mentioned.)

St. Joseph, Mo.—School district contemplates awarding contract in April for erection of proposed Everett, Hall and Washington school buildings and remodeling of Neely school; Eckel & Boschen prepared plans for Neely and Washington schools, Rudolph Meier for Everett, and Trunk & Helm for Hall building; architects all of St. Joseph; structures to be fireproof, with hot-blast steam heat; 8 to 12 rooms; cost \$40,000; H. H. Smith, secretary and superintendent of buildings.

Teague, Texas.—City has voted \$40,000 of bonds to erect two school buildings, one to cost \$25,000 and the other \$15,000. Address The Mayor.

Wakefield, N. C.—Wakelon High School District has voted \$10,000 of bonds to erect school building. Address The Mayor. (Recently mentioned.)

West Raleigh, N. C.—North Carolina College of Agriculture and Mechanic Arts will receive bids until April 20 for erection of dormitory building; plans and specifications on file at office of H. P. S. Keller, architect, Tucker Bldg., Raleigh, N. C.

Wharton, Texas.—City contemplates \$12,000 bond issue for school improvements. Address The Mayor.

Wichita Falls, Texas.—City contemplates issuance of \$80,000 of bonds to erect school building. Address The Mayor.

### THEATERS

Asheville, N. C.—Coxe estate reported to erect theater; to have stores on each side of theater and offices on second floor.

Atlanta, Ga.—Bijou Theater Co. incorporated with \$1000 capital stock, and privilege of increasing to \$5000, by Jake Wells, H. L. Cardoza and V. A. Batchelor.

Baltimore, Md.—Baldwin & Pennington, Professional Bldg., Baltimore, have completed plans for moving-picture theater to be erected by Thomas O'Neill at 30 and 34 West Lexington street, to be occupied by Greater Wizard Amusement Co.; contractors estimating on construction include John Waters, 23 East Center St.; J. J. Walsh & Son, 1525 Maryland Ave.; Engineering Contracting Co., 207 American Bldg.; James F. Farley, 43 Franklin Bldg.; John K. McIver of McIver & Piel, 2315 Edmondson Ave., and Edward Watters & Co., 632 St. Paul St., all of Baltimore. (Previously mentioned.)

Durham, N. C.—City will open bids April 30 for erection of municipal building and Academy of Music recently mentioned; to have steam heat and electric lighting; 72x192 feet; plans by Hook & Rogers, 609 Trust Bldg., Charlotte, N. C. (See "Municipal Buildings.")

Little Rock, Ark.—Albert Wels of New York; Clarence Wels, Memphis, Tenn., and

associates awarded contract for erection of theater in Little Rock; brick and terra-cotta; marquise over main entrance; stage 40x75 feet; cost \$50,000; plans by John Gaisford, Cotton Exchange Bldg., Memphis, Tenn. (Recently mentioned.)

McAlester, Okla.—A. B. Estes awarded contract to O. J. Bicking, McAlester, for erection of summer theater alldome, recently mentioned; stage 40x30 feet, 36 feet high; cost \$5000; plans by Smith & Parr, McAlester.

Memphis, Tenn.—Phoenix Club will erect arena to seat 5000; P. J. Carroll, Chicago, Ill., will be manager.

Savannah, Ga.—Frank and Hubert Bandy, proprietors of Criterion and Superba Theaters, will erect air-dome theater; site 100 feet square; stage 25x45 feet; auditorium to have seating capacity of 2000; incandescent lighting; plans prepared.

Shaw, Miss.—City awarded contract to Shaw Hardware & Lumber Co., Shaw, for erection of school building, to cost \$7000.

Williamson, W. Va.—Williamson Theater Co. incorporated with \$5000 capital stock by K. B. Cecil, H. A. Goodloe, Harry S. Herr and others.

Wilmington, N. C.—City will receive bids at office of City Clerk and Treasurer until April 20 for lease of Academy of Music from June 1 and continuing for 10 years; each bidder to specify that he will expend not less than \$6000 in improvements; K. W. Jewell, chairman Public Buildings Committee.

### WAREHOUSES

Baltimore, Md.—Di Giorgio Fruit Co., Joseph Dio Giorgio, president, will have plans prepared by John Freund, Jr., 210 E. Lexington St., Baltimore, for shed to be erected on space allotted company on western half of Pier 2, Pratt street; structure to be used for protection of merchandise, either received or for shipment; building proper will be one story; 30 feet high, 226 feet long and 70 feet wide; timber framing, covered with slag roof and inclosed with corrugated iron siding; will be provided with sliding doors, placed on continuous running track, on unloading or ship side of structure.

Baltimore, Md.—John M. Griffith, president Griffith & Turner Company, 205-215 North Paca St., awarded contract to John Cowan, 306 West Madison St., Baltimore, to erect warehouse at 210, 212 and 214 Jasper street; three stories; brick; 43x56 feet; cost \$8000.

Beaumont, Texas.—City proposes to erect warehouses and other facilities in connection with wharf; C. L. Scherer, City Engineer. (See "Miscellaneous Construction Work.")

Dallas, Texas.—R. E. Adams Realty Co. is considering erection of warehouse; three stories; reinforced concrete and steel; 200x200 feet; cost \$200,000.

Fort Worth, Texas.—Chicago, Rock Island & Pacific Railway, J. B. Berry, chief engineer, Chicago, Ill., will erect 144-foot addition to freight warehouse at Fort Worth, and 5000 square feet of additional platform; cost \$7500.

Hattiesburg, Miss.—Bostick Lumber & Manufacturing Co. will erect warehouse; brick; 66x210 feet; double deck; upper portion to be fitted with stalls for storing molding, banisters, etc.; 20-foot driveway through center; cost \$2500; construction by company.

Jacksonville, Fla.—Merchants & Miners' Transportation Co., Joseph C. Whitney, president, Light and German Sts., Baltimore, previously reported to improve steamship terminal at Jacksonville by erection of wharves, warehouses, etc., will build two warehouses; one story; 65x205 feet; frame, covered with corrugated iron; foundation piling is being driven; site comprises 20 acres, fronting 800 feet on St. John's River.

Mobile, Ala.—M. Forchheimer & Co. awarded contract to Jett Bros. Construction Co. of Mobile for erection of warehouse recently mentioned; four stories; fireproof; brick, steel and stone; reinforced concrete floors; cost \$13,000; plans by Stone Bros., New Orleans, La.

Norfolk, Va.—West Richardson, Hampton, Va., is lowest bidder at \$52,504 for erection of freight warehouse for Norfolk & Southern Railway; Benjamin F. Mitchell of Norfolk prepared plans. (See "Bank and Office Buildings.")

Norfolk, Va.—E. Tatterson of Norfolk has contract to erect warehouse for E. L. Simpson; structure to be five stories; brick; fireproof; cost \$30,000; plans by Neff & Thompson of Norfolk. (Mentioned in January.)

Tampa, Fla.—Aulick & Deratt, contractors, Tampa, are proceeding with erection of proposed 80x480-foot extension to warehouse of Tampa Fertilizer Co.



Wilmington, N. C.—Seaboard Air Line Railway is proceeding with arrangements for erection of two warehouses at Wilmington; 150x500 feet; wood, with corrugated iron sides and top; receiving platforms, 61x120 feet; to be equipped with elevators, trackage, etc.; present system of warehouses will also be improved. V. E. McBee, Jr., Raleigh, N. C., will be engineer in charge. (See "Railway Shops, Terminals, etc.")

## RAILROAD CONSTRUCTION

### RAILWAYS

Augusta, Ark.—The Augusta, Gregory & Southern Railway Co. has been chartered to build a line from Augusta to Gregory, Ark., and thence to a connection with the Missouri & North Arkansas Railroad, 14 miles. Capital \$200,000, which is the estimated cost. The directors are J. L. Connor, T. E. Bonner, M. Gregory, R. K. Fitzhugh, Ed Roddy, J. J. Story, T. F. Stanley, H. M. Wood and A. K. Campbell.

Augusta, Ga.—J. Respass, engineer in charge, is reported to have surveyed for revision of line on the Augusta Southern Railroad from Hepzibah to Blythe and Augusta. Line will also be revised between Blythe and Gibson. Address, Augusta, Ga.

Bentonville, Ark.—The Arkansas Co-operative Construction Co. of Bentonville has been incorporated, it is reported, to build the Bentonville & Joplin Interurban Railway, which will be altogether about 200 miles long. Survey is in progress and construction expected soon. President, Winlock Morris; vice-president, H. A. Luekens; secretary, J. W. Blocher; treasurer, Dwight Dickson; chief engineer, P. H. Sackett.

Birmingham, Ala.—The receivers' report on the Alabama Terminal Co., of the Atlanta, Birmingham & Atlantic Railroad, estimates that the line from Pelham via Bessemer to Mulga will require \$341,000 for completion and that the cost of the line from Pelham to Birmingham will be \$620,763. H. M. Atkinson and P. S. Arkwright are receivers at Atlanta, Ga. Mr. Atkinson is reported as saying that preparations are being made to resume construction on both these lines, the financing having been arranged.

Bowie Mountain, Md.—An officer of the Chambersburg, Greencastle & Waynesboro Street Railway Co. of Waynesboro, Pa., informs the Manufacturers' Record that it is not yet decided whether the line will be extended from Pen-Mar Park to High Rock and other points on Blue Mountain. George B. Beaver of Waynesboro, Pa., is president.

Burlington, N. C.—The Burghaw Interurban Co. is reported to have graded more than a mile and a half of its proposed line to connect Burlington, Graham and Haw River. The Southern Power & Traction Co. is affiliated. The line from Burlington to Haw River is four miles, with a spur to Graham, one mile.

Cabool, Mo.—Reported that E. E. Young of Licking, Mo., and associates propose to build a standard-gauge electric railway from Cabool to Rolla, Mo., 75 miles, and that he would like to hear from engineers and contractors.

Cambridge, Md.—The proposed electric railway between Cambridge and other points on the Eastern Shore of Maryland will have a main line from Claiborne to Ocean City, 85 miles, via St. Michaels, Easton, Hurlock, Vienna, Salisbury and Berlin. Another line will be from Cambridge to East Newmarket, with a branch to Secretary, thence crossing the main line at Hurlock and going to Federalsburg, Md., and Seaford, Del. The McCay Engineering Co. of Baltimore has charge of surveys, but the New York interests back of the plan are not yet announced. John H. Burgess, Jr., of Cambridge and T. Hughlett Henry of Easton, Md., are also reported interested.

Cartersville, Ga.—The Nashville, Chattanooga & St. Louis Railway, it is reported, will build its own line from Cartersville to Atlanta, 47 miles. Hunter McDonald is chief engineer at Nashville, Tenn.

Concord, N. C.—James W. Barry of Charlotte, N. C., and David Barry of Amherst, Mass., have applied to the County Court for an electric-railway franchise from Charlotte to Concord.

Dallas, Texas.—B. B. Cain, vice-president and general manager of the Gulf, Texas & Western Railroad Co., is reported as saying that we will probably let a contract soon for 20 miles of line between Jacksboro and Olney, Texas.

Dermott, Ark.—The Ebbitt Lumber Co. will, it is reported, build 25 or 30 miles of railroad to develop timber lands between Dermott and Tillar.

Durant, Okla.—An agent of the Missouri, Oklahoma & Gulf Railroad is reported as saying that contracts for the line through Bryan county will be let this month. Practically all the contracts for grading the 36 miles south of Calvin have been let and much of the work is under way. E. J. Noonan is chief engineer at Muskogee, Okla.

Elkins, W. Va.—The Chaffey-Wilson Lumber Co. has, it is reported, been organized and will build a railway to develop its property. Richard Chaffey, president; Merritt Wilson, vice-president and manager; George W. Wilson, secretary and treasurer, all at Elkins, W. Va.

El Paso, Texas.—Reported that the San Diego, El Paso & St. Louis Railway Co. will apply for a charter in New Mexico so as to continue its line, which starts in Texas, across part of that territory. Surveys under way. Line to be about 500 miles long, from El Paso to Oklahoma boundary. L. P. Atwood is chief engineer at El Paso; A. Courchesne is president, and H. B. Stevens vice-president, at El Paso.

El Paso, Texas.—Reported that the El Paso and Fort Hancock Electric Railway Co. of El Paso, Texas, which proposes to build from El Paso to Fabens, has let contract to Richard Caples for the work between El Paso and Yaleta.

Fairburn, Ga.—The Fairburn & Atlanta Railway & Electric Co. has, it is reported, awarded contract for construction, work to begin May 6, from College Park to Fairburn. W. T. Roberts of Fairburn is president and Frank Lederle, 509 Candler Bldg., Atlanta, Ga., is engineer.

Fayetteville, W. Va.—Samuel Dixon, president of the White Oak Railway, Macdonald, W. Va., is reported as saying that the Fayetteville Council will be asked to grant right of way for an electric railway from Fayetteville about three miles to Stuart, which is a terminal of the White Oak Railway.

Fitzgerald, Ga.—C. A. Holtzendorf, secretary-treasurer and general manager of the Fitzgerald & Ocala Electric Railway & Power Co., Fitzgerald, Ga., is quoted as saying that preliminary work, surveys, etc., have been completed for the proposed line from Fitzgerald to Ocala, Ga., 12 miles, and probably the company will be ready to let contracts by May 31. Capital, \$100,000. Bonds authorized, \$250,000. S. Tilden Holtzendorf, 61 Fifth Ave., New York city, is president; Judge D. B. Joy of Fitzgerald, Ga., is vice-president. The General Engineering & Contracting Co., New York city, is engineer.

Foering, N. C.—The Appalachian Railway is reported completed from Foering, on the Southern Railway near Whittier, N. C., to Cherokee, about seven miles. The line is to be continued to Sevierville, Tenn. Robert Gray of Whittier is reported as chief engineer.

Franklin, Va.—The South Brunswick Railway Co. has been chartered to build a line in Brunswick county from a point on the Southern Railway between Freeman and Lawrenceville, Va., to a point on the Seaboard Air Line between Gaston and Garysburg, N. C., about 25 miles. Authorized capital stock, \$55,000. The incorporators are P. D. Camp, president; J. L. Camp, vice-president; R. J. Camp, secretary and treasurer; J. C. Williams, general superintendent; R. G. Camp, J. E. Camp and P. R. Camp, all of Franklin, Va. Headquarters at the office of the Camp Manufacturing Co.

Gadsden, Ala.—The Louisville & Nashville Railroad, it is reported, has let contract to Foster & Sharp of Gadsden to move the earth at the new union depot.

Grafton, W. Va.—The Baltimore & Ohio Railroad will, it is reported, revise its line entering Grafton. A. M. Kinsman is chief engineer at Baltimore, Md.

Greenville, S. C.—Reported that L. M. Hubbard, promoter of the proposed electric railway from Greenville to Paris Mountain, nine miles, will apply immediately to charter the enterprise, the bonus being practically assured.

Guthrie, Okla.—H. M. Dougherty and others of Columbus, Ohio, are reported to contemplate building an interurban electric railway from Guthrie to Norman, Okla., at a cost of \$110,000.

Harrison, Ark.—Further official information received by the Manufacturers' Record says that the Harrison & Mineral Belt Railway Co., heretofore reported, proposes to build a line 480 miles long from St. Louis, Mo., via Harrison, Ark., and other points to Paris, Texas. Fifty miles will soon be ready for construction. J. R. Newcomb is president; L. A. Saffer, first vice-president; C. D. Allison, second vice-president; John E. Northen, third vice-president and general manager. Other officers as heretofore reported. A. T.

Clements of Vineyard, Ark., is contractor. Line now to be built is from Appleton, on the Missouri Pacific, to Harrison, Ark. Material men and contractors may address L. A. Saffer at Harrison, Ark., and T. A. Morton, chief engineer, at Vineyard, Ark.

Henderson, Texas.—Mr. J. B. Wilson of Dallas, Texas, one of those interested, informs the Manufacturers' Record that nothing definite has been decided about organizing a railroad company for a line from Henderson to Pine Hill, Texas. A proposition has been made to Henderson, but has not been accepted.

Hinton, W. Va.—Announcement is reported that the Virginian Railway Co. will immediately begin building a branch from Hinton to connect with the main line near Lynchburg. A survey is to be made from Matoaka to the Big Blue Stone River and thence up New River; also a branch from the mouth of Big Blue Stone to Glade via Hinton. H. Fernstrom is chief engineer at Norfolk, Va.

Hodge, La.—Official to the Manufacturers' Record: The North Louisiana & Gulf Railroad Co. may build an extension in Bienville parish. J. B. Baker is superintendent at Hodge, La.

Huntington, W. Va.—An official letter to the Manufacturers' Record denies the press report that the Ohio Valley Electric Railway Co., of which William C. Sproul of Chester, Pa., is president, has acquired from the Chesapeake & Ohio Railway an abandoned right of way between Barboursville and St. Albans. The matter has been considered, but is not in contemplation just now.

Huntsville, Ala.—Construction is reported under way on the Huntsville and the Monte Sano Electric Railway. Some grading has been done and nearly all trolley poles are erected.

Kansas City, Mo.—The Interstate Railway Co., it is reported, has applied for rights of way for its proposed electric railway between Kansas City and St. Joseph. Joseph A. Corby is president at Kansas City.

Kansas City, Mo.—The Kansas City, Mexico & Orient Railway has, it is reported, completed arrangements for further financing to continue construction. W. W. Colpitts is chief engineer at Kansas City.

Kansas City, Mo.—Reported that the Missouri Pacific Railway has completed plans to rebuild its main line from Kansas City to Pueblo, 750 miles, including branches. The roadway and track will be much improved. E. F. Mitchell is engineer of construction at St. Louis, Mo.

Kansas City, Mo.—R. C. Rawlings, president of the Interstate Railway & Power Co., Kansas City, Mo., is reported as saying that construction will begin in May between Kansas City, Mo., and Lawrence, Kan., on the proposed electric railway; also between Iola and Chanute, Kan. Considerable track has been laid at Coffeyville; office, 607 Bryant Building, Kansas City; J. W. T. Stephens of New Orleans, La., is chief engineer; E. H. Abadie, St. Louis, Mo., is electrical engineer.

Knoxville, Tenn.—The County Court has granted right of way to Charles Dawes to build an interurban railway from the Knoxville Woolen Mills, on Sutherland avenue, via Bearden, Lyon's View and other points as far as Concord.

La Porte, Texas.—Concerning the report that the Galveston, Harrisburg & San Antonio Railway (Southern Pacific system) would build an extension from LaPorte south three miles, an officer informs the Manufacturers' Record that nothing is definitely decided.

Lynchburg, Va.—A report from Washington, where the Southern Railway has its headquarters, says that the company has awarded contract to W. J. Oliver of Knoxville to resume work on the Lynchburg division, which includes double-tracking, a tunnel and a bridge.

Marshall, Texas.—Reported that 10 miles of grading have been completed south from Marshall on the extension of the Marshall & East Texas Railroad.

Menardville, Texas.—The Manufacturers' Record is informed that a bonus of \$58,000 has been raised, which, together with right of way through the county, will be given to any railroad first building to Menardville. J. D. Scruggs, County Judge of Menard county, and others are interested.

Miles Station, Texas.—Mr. R. A. Love, general manager and first vice-president of the Concho, San Saba & Llano Valley Railway Co., writes the Manufacturers' Record that the line will extend from San Angelo, Texas, to San Antonio, Texas, about 225 miles. Construction will begin before May 1. Headquarters at Miles, Texas. D. E. Sims is president and T. K. Wilson is chairman of the board.

Moberly, Mo.—Reported that the offer of Messrs. Manning and Wellman of Ottumwa, Iowa, to build an electric railway from Moberly to Huntsville has been accepted by both places.

Mount Vernon, Texas.—The Manufacturers' Record is informed that location survey will begin immediately for the St. Louis, Oklahoma & Texas Railway, about 100 miles northwest and south of Mount Vernon, Texas. M. J. Smith of McAlester, Okla., is engineer and R. C. Sturgeon is engineer in charge of survey.

Muskogee, Okla.—President William Kenebeck of the Missouri, Oklahoma & Gulf Railway is reported as saying that survey has been made to extend the road south, and at the end of three years the company may have its own line from Kansas City to the Gulf. He is reported to have assurance that a line northward from Wagoner to Joplin or Pittsburg, Kans., will be financed, and possibly it will be extended to Kansas City. E. J. Noonan is chief engineer at Muskogee, Okla.

Muskogee, Okla.—Announcement is reported that the Missouri, Kansas & Texas Railway will begin work within 60 days on lowering tracks 17 feet through the city. S. B. Fisher is chief engineer at St. Louis, Mo.

Narkeeta, Miss.—An officer of the Mobile & Ohio Railroad in a letter to the Manufacturers' Record says he knows nothing about any proposed construction from Narkeeta, Miss., to Gainesville, Ala. This denies a recent press report.

Nashville, Tenn.—Lee Guggenheim is reported as saying that he will build an electric railway from Nashville to Crocker Springs along the White Creek pike, 12 miles. Connection will be made with the Nashville Street Railway.

Newport, Tenn.—P. C. Ottinger of Knoxville is reported promoting a plan for an electric railway between Newport and Greenville, Tenn.

Onancock, Va.—Spencer F. Rogers, John S. Waples and others are reported working on a plan for the proposed electric railway from Onancock to a point on the Atlantic Ocean coast, about 15 miles. The line from Onancock as far as Tasley, about three miles, is expected to be built immediately.

Paducah, Ky.—Directors of the Kentucky & Ohio River Interurban Railroad Co. and the public improvement committee of the Commercial Club have, it is reported, approved the original survey for the Cairo line via Bandanna, Ingleside and other towns. Subscriptions for \$100,000 are to be solicited immediately. L. B. Whitesides of New York, F. N. Whitesides of Franklin, Ind., and C. H. Clark of Indianapolis are interested besides J. J. Freundlich of Paducah, the general manager.

Pensacola, Fla.—Henry McLaughlin, president of the Pensacola, Alabama & Tennessee Railroad, extending from Pensacola about 30 miles, is reported as saying that he will extend 10 miles further toward Mobile immediately. Address Pensacola, Fla.

Petersburg, W. Va.—Mr. John J. Cornwell writes the Manufacturers' Record confirming the report that he is interested in a project to build a railroad from Romney to Petersburg, 39 miles, connecting at the former place with the Baltimore & Ohio Railroad. W. B. Cornwell of Fairmont, W. Va., is president, and Raymond Abbatichio, also of Fairmont, is secretary. A special election will be held May 15 in Grant county to vote on \$30,000 of bonds in aid of the road, which is to be called the Hampshire Southern.

Peterstown, W. Va.—W. H. Ballard of Peterstown is reported to be promoting a railway from Rich Creek, on the Virginian Railway opposite Lurich, to Peterstown, four miles.

Salisbury, N. C.—Plans are under way to build a railroad from Winston-Salem via Spencer, Salisbury, Concord and Mt. Pleasant to Monroe, on the Seaboard Air Line, 115 miles. This plan, it is said, has nothing to do with the proposed Winston-Salem Southbound Railroad. Application for a charter was made to the Legislature. Col. G. E. Webb of Winston-Salem and others of Salisbury are reported interested.

San Antonio, Texas.—President Mike Goggan of the Port O'Connor, Rio Grande & Northern Railroad Co. is quoted as saying that \$250,000 are assured for beginning work from Victoria south to Port O'Connor on this line, which is to be built by a Dutch syndicate, as heretofore reported. W. I. Allen, general manager, is now returning from Holland.

Sanford, N. C.—Construction is reported begun on the railway in Sanford, and it is to be connected with the Sanford & Ever-

glades Railroad to Cameron City, about eight miles. Gasoline cars are to be used.

**St. Louis, Mo.**—The Manufacturers' Railway of St. Louis is reported to be perfecting the plan for its proposed enlargements and extensions, which include a belt line in South St. Louis, another belt across the river in Illinois and a line on the west side of the Mississippi southwest or south of St. Louis for 150 or 200 miles. G. F. Moore is president, Broadway and Pestalozzi streets, St. Louis, Mo.

**Tolnetto, Ala.**—President John T. Cochran of the Tombigbee Valley Railroad informs the Manufacturers' Record that he is not interested in the Lewis Creek Railroad Co., organized to build a lumber line 40 miles long from Tolnetto to Skidder, on the Tombigbee Valley Railroad, in Washington county, Alabama, which latter line has been incorporated by S. R. Cochran, H. W. Cochran and G. E. Cochran of Tolnetto. This denies a recent press report which connected Mr. Cochran's name with the enterprise.

**Tulsa, Okla.**—The Oklahoma Union Traction Co. has been chartered to build an interurban railway from Tulsa to Sapulpa, Okla., about 20 miles, at an estimated cost of \$300,000. Capital, \$100,000. The incorporators are Albert A. Small, Cicero L. Holland, Edgar T. Tucker, Grant C. Stebbins and Samuel A. Orcutt, all of Tulsa.

**Tuscaloosa, Ala.**—An officer of the Louisville & Nashville Railroad informs the Manufacturers' Record that the track construction from Searles to lock No. 16, near Tuscaloosa, is a temporary tramroad which is being built by B. H. Hardaway of Columbus, Ga., who is contractor for lock No. 16, on the Warrior River.

**Victoria, Texas.**—Rumored that the St. Louis, Brownsville & Mexico Railroad contemplates building a line from Bloomington to Victoria, Texas, about 15 miles. E. C. Burgess is resident engineer at Kingsville, Texas.

**Waco, Texas.**—At a joint meeting of representatives of Temple and Waco a resolution was adopted that \$50,000 bonus will be given to a company to build the proposed Temple & Waco Interurban Railway. If not accepted, local interests will organize a company and build it. A proposition of Max Elser, representing New York capital, to build the line for right of way and franchises was accepted by telegraph.

**Walkers, Va.**—Matthews & Curtis of Clifton Forge, Va., are reported to have received contract for double-tracking on the Chesapeake & Ohio Railway between Walkers and Roxbury, about 10 miles.

**Waycross, Ga.**—The Hebard Lumber Co. is reported to have put construction gangs along the entire route of its railway from Waycross to the Okefenokee swamp to rush the work, and it is probable the line will be extended to a connection for the Gulf of Mexico, with a branch to Jacksonville.

**West Point, Miss.**—The West Point & Houston Railway Co. is reported organized and will apply for a charter to build a steam line connecting the points named. J. M. Hardison is president; W. F. Lagrone, secretary; L. P. Carlisle, treasurer. A letter to the Manufacturers' Record confirms the foregoing.

### STREET RAILWAYS

**Clinton, Okla.**—The Clinton Street Railway Co., capital \$50,000, has been chartered, and the Clinton Railroad Construction Co., capital \$10,000, was incorporated by the same parties. The directors are C. W. Goodwin, R. O. Hunt, M. L. Holcombe, Charles H. Lamb, E. M. Tittsworth, A. N. Curry, E. A. Humphrey and B. A. Little, all of Clinton, Okla., and H. Smith of Arapahoe, Okla.

**Hattiesburg, Miss.**—The Hattiesburg Traction Co., it is reported, has let a contract to the Electrical Installation Co. of Chicago to complete the street railway and erect a \$150,000 power plant, to be in operation by August 1.

**Helena, Ark.**—G. W. Greenway is reported as saying that work will be resumed immediately on the proposed street railway to be completed early this summer.

**Knoxville, Tenn.**—The Knoxville Railway & Light Co. has been granted the right to lay double track on North Central street.

**Miami, Fla.**—The Miami Electric Railway, three miles long, is reported sold to satisfy a judgment, and it is further reported that the line will be restored and extended. J. H. Tatum, vice-president and general manager, Miami, Fla., may be able to give information.

**Norfolk, Va.**—An officer of the Norfolk City & Suburban Railway is reported as saying that contracts will be placed within six weeks for building about one mile of new track.

**Pensacola, Fla.**—The Pensacola Develop-

ment & Construction Co., it is reported, has a part of its railway in operation, and the track is being completed to Beach Haven. Cars will be run by gasoline. H. P. Ball, president; W. S. Monk, vice-president; E. D. Ellasburg, secretary and treasurer.

**Washington, N. C.**—A letter to the Manufacturers' Record says that construction will begin about April 20 on the proposed electric street railway, in which the Washington Investment Co. was previously reported interested. The contractors are the R. W. Marshall Company and the Traction Engineering Co., F. B. Massey, general manager. Whitney McIlhenny will be superintendent in charge of construction and Eugene Massey will represent the company. Line will be four miles long.

### MACHINERY, PROPOSALS AND SUPPLIES WANTED

**Manufacturers and others in need of machinery of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery needed we will make their wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. The Manufacturers' Record has received during the week the following particulars as to machinery that is wanted.**

**Air Compressor.**—Lebanon Bottling Works & Ice Co., Lebanon, Tenn., wants small second-hand air compressor.

**Air Compressor.**—W. M. Lundy & Son, Johnson City, Tenn., want prices on air compressor.

**Aluminum Ware.**—A. F. Croal, 137 Gordon St., Atlanta, Ga., wants to correspond with manufacturers of aluminum ware.

**Asphalt.**—See "Roofing Machinery."

**Automobile Materials, etc.**—T. H. Lindsey, secretary Durham Automobile Co., Durham, N. C., wants catalogues and prices on automobile materials and supplies and information on construction of machines.

**Boilers.**—See "Well-drilling Machinery."

**Boilers.**—See "Engines and Boilers."

**Boilers, etc.**—Bids will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until May 6 for furnishing semi-marine boilers, air compressor, fire-alarm system, electric motor, electric-driven woodworking machines, machine-shop machines, tin and copper smith tools, drill chucks, vises, sheave, shafting, rock-drill steels, cypress water tank, etc. Blanks and general information relating to Circular No. 503 may be obtained at above office or offices of assistant purchasing agents, 24 State street, New York; Customs-house, New Orleans; 1086 North Point street, San Francisco, Cal.; also from U. S. Engineer office in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile, Galveston and Commercial Club, Kansas City; Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

**Bottling Plant.**—Martin Lopez, Box 148, San German, Porto Rico, wants water distilling and carbonating apparatus, and bottles, tin caps, capping machines, etc., for bottling mineral water.

**Bottling Plant.**—C. C. Paine, Box 162, Rockport, Texas, wants information (including formulas) on bottling plant; also catalogues and prices on equipment.

**Bridge Construction.**—Board of Control, Norfolk, Va., will receive bids until April 26 for construction of reinforced concrete bridge. Plans, specifications and forms of proposal on file at office of W. T. Brooke, City Engineer, and may be obtained on payment of \$2.

**Bridge Construction.**—W. C. Vaught, clerk Board of Supervisors of Pike County, Magnolia, Miss., will receive bids until May 3 for construction of steel span across Bogue Chitto River at Holmesville, Miss.; plans and specifications as prepared by Joliet Bridge & Iron Co., Joliet, Ill., on file in office of Mr. Vaught; also, until same date, for building bridge near John Boyd's and for another bridge near S. A. Dickey's place on Asyka and Chatawa road.

**Bridge Construction.**—Road Supervisor of McCracken county, Paducah, Ky., will receive bids until April 17 for construction of 420-foot bridge across Clark's River; to be concrete for 300 feet, with steel span of 120 feet with concrete floor; also one concrete bridge across Perkins Creek, 90 feet long. For further information address Road Supervisors or George R. Bradford, magistrate.

**Building Materials, etc.**—John T. Landis, care of Landis Banking Co., Stahlman Bldg., Nashville, Tenn., wants prices on building materials, etc., for \$20,000 residence.

**Building Material and Machinery.**—Oklahoma Architectural & Engineering Co., Chickasha, Okla., wants catalogues and prices on all material and machinery of interest to architects and engineers.

**Cable Terminals.**—See "Telephone Equipment."

**Cannery.**—Acworth Canning Co., Jas. D. Gay, secretary, Acworth, Ga., wants prices on canning equipment.

**Canning Machinery, etc.**—Colonial Canning Co., A. L. Smith, general manager, Cunningham Bldg., Joplin, Mo., is receiving proposals on factory equipment for canning vegetables, pickling and preserving.

**Carbonating Apparatus.**—See "Bottling Plant."

**Cars.**—See "Contractor's Equipment."

**Cars.**—A. V. Kaiser & Co., 739 Drexel Bldg., Philadelphia, Pa., want about 50 dump cars, one or two way, one to two yards capacity, 30-inch gauge; complete details first mail, prices knocked down in export shipping shape f. o. b. alongside steamer New York for shipment to Cuba.

**Cars.**—Peacock's Iron Works, Selma, Ala., wants second-hand 20-ton logging cars.

**Cars.**—See "Road Machinery."

**Cars.**—Jos. E. Bowen, Bank of Commerce Bldg., Norfolk, Va., in market for 100 60,000 pounds capacity flat cars; pass M. C. B. inspection.

**Cars.**—M. Turney, Marshall, Texas, wants one or two second-hand street cars. (Name recently incorrectly printed as "Twiney." Address since changed to Marshall.)

**Cement.**—U. S. Engineer Office, Wheeling, W. Va. Sealed proposals for furnishing and delivering about 9000 barrels of American Portland cement for dam No. 26, Ohio River, will be received until April 23; information furnished on application. F. W. Altstaetter, Captain, Engineers.

**Chains.**—Edw. McDowell, Coker Creek, Tenn., wants dredge chain and "dope" for chains.

**Coal.**—U. S. Courthouse and Postoffice Building, Baltimore, Md.—Sealed proposals will be received at U. S. Treasury Building until April 30 for furnishing 2550 tons of bituminous and 500 tons anthracite screenings coal for use in U. S. courthouse and postoffice and U. S. custom-house buildings during fiscal year ending June 30, 1910. Proposal blanks and specifications can be obtained from W. Hall Harris, custodian.

**Concrete Mixer.**—B. & P. Armitage, 1525 Land Title Bldg., Philadelphia, Pa., want small concrete mixer. (See "Contractor's Equipment.")

**Concrete Walls.**—U. S. Engineer Office, Louisville, Ky. Sealed proposals for concrete walls, etc., at lock at Grand Rapids, Wabash River, will be received until May 1; information furnished on application; Lytle Brown, Captain, Engineers.

**Contractor's Equipment.**—B. & P. Armitage, 1525 Land Title Bldg., Philadelphia, Pa., want steam pile-driver, horse-power pile-driver, traction steam shovel, several 1½ or 2-yard dump cars, wheel and drag scrapers, derricks and small concrete mixer.

**Conveyor.**—James Flanagan, 9th St. and State Line, Kansas City, Mo., wants gravity package conveyor for warehouse.

**Conveying Machinery.**—C. I. Farnsworth, Buckhannon, W. Va., wants information and prices on machinery for conveying grain from car to flour mill on opposite side of 150-foot-wide river.

**Cooperage.**—See "Stave Machinery, etc."

**Corn Mill.**—Alexandria Mill & Elevator Co., Alexandria, La., will receive proposals for cornmill machinery.

**Cotton Gin.**—N. B. McLean, West, Texas, wants prices on cotton-gin equipment.

**Cotton Gin.**—Electra Gin Co., D. T. Case, manager, Electra, Texas, wants cotton-gin machinery.

**Cotton Yarns.**—Ole Kravik, Jr., Marietta, Minn., wants quotations on yarns for glove-works.

**Dam Construction.**—City Council, Denison, Texas, will until May 10 receive bids for construction of earth dam, as per plans and

specifications on file with J. D. Yocum, City Secretary; total embankment 145,000 cubic yards; topography of site makes hydraulic sluicing possible; deposit of \$5000 required; work to be completed in 150 working days; plans, specifications, form of proposal, bond and contract may be seen at office of City Secretary, or copies will be sent upon request by Hiram Phillips, Frisco Bldg., St. Louis, Mo. Alex W. Acheson, Mayor.

**Engine.**—Frank H. Davis, 72 Crescent Ave., Cambridge, Mass., wants 16x16 New York Safety or Fitchburg engine.

**Derrick Irons and Fittings.**—E. E. Maxwell, Canal Dover, Ohio, wants irons and fittings for guy derrick.

**Derricks.**—See "Contractor's Equipment."

**Doors and Sash.**—Sam'l S. Rountree, Quitman, Ga., wants prices on doors and sash for \$7000 dwelling.

**Dredge Machinery, etc.**—U. S. Engineer Office, Nashville, Tenn. Sealed proposals for furnishing machinery, fittings, etc., for dipper dredge will be received until May 5; information on application; Wm. W. Harts, Major, Engineers.

**Electric Fixtures.**—Tupelo Cotton Mills, Tupelo, Miss., wants prices on electric fixtures for schoolroom.

**Electric Motors, etc.**—Hagerstown Silk Co., Hagerstown, Md., will want electric motors and wiring.

**Electric Plant.**—Sealed proposals will be received at office of City Electrician, Room 7, fourth floor, City Hall, Richmond, Va., until April 27 for furnishing material and performing work required for construction and equipment of electric plant, including construction of dams, raceways, foundations and other concrete work, rock excavation, radial brick chimney, turbines, intake gates and gear, trash racks, electric generators, steam turbines, exciters, switchboards, regulators, electric wiring, boilers, steam and water piping, railways, pumps, condensers, lamps and other accessories; plans, specifications, proposal forms and form of contract on file at above office and of E. W. Trafford, consulting engineer, Rooms 43-45 Chamber of Commerce Bldg., Richmond, Va.; proposals to be made upon forms supplied by city and be accompanied by certified check for 5 per cent. of amount of proposal; E. D. Richardson, chairman Committee on Electricity.

**Electric Wiring.**—Bids will be opened May 10 for electric wiring and plumbing of two company officers' quarters, two non-commissioned officers' quarters, one wagon shed, one fire station, and porches for four officers' quarters, to be erected at Fort Dade, Station Egmont, Fla. Address Constructing Quartermaster. (See "Government and State Buildings.")

**Electrical Equipment.**—See "Boilers, etc."

**Electrical Equipment.**—Electra Gin Co., D. T. Case, manager, Electra, Texas, wants electrical equipment.

**Engine.**—See "Road Machinery."

**Engines.**—W. W. Jamieson, Jr., care of 5 J Coal Co., Central City, Ky., wants addresses of manufacturers of high-pressure steam generators and engines for motor-boats.

**Engines.**—See "Well-drilling Machinery."

**Engines and Boilers.**—B. F. Avery & Sons, 1501 West Main St., Louisville, Ky., will require boilers and engines for 700 horse-power.

**Engineering Machinery.**—See "Building Material and Machinery."

**Filter Plant.**—See "Water-works."

**Flannels.**—Ole Kravik, Jr., Marietta, Minn., wants quotations on flannels for canvas gloves.

**Flour Mill.**—J. L. Pitts, Scottsville, Va., will receive bids on flour mill of 75 to 100 barrels capacity.

**Flywheel.**—Gibbes Machinery Co., 804 West Gervais St., Columbia, S. C., in market for second-hand engine flywheel, 8 to 10 feet in diameter, 14-inch face; hub of wheel to be bored 7-inch diameter; wheel to weigh about 5000 or 6000 pounds.

**Gasoline Engine.**—See "Hoisting Engine."

**Glass.**—Building Committee, Presbyterian Church, will receive bids May 14 for glass. Address H. W. Simpson, architect, 68 Broad St., Newbern, N. C.

**Glass Windows.**—Tupelo Cotton Mills, Tupelo, Miss., wants prices on leaded-glass windows.

**Hardware.**—J. A. Litchfield, 108 Windsor Ave., Norfolk, Va., wants prices on builders' hardware.

**Heating Plant.**—Building Committee, Presbyterian Church, will receive bids May 14 for hot-air heating system. Address H. W. Simpson, architect, 68 Broad St., Newbern, N. C.

**Heating Plant, etc.**—Bids addressed to W. E. Tokey will be received until April 20 for



steam heating and closets for eight-room school building at Byars, Okla.; certified check for \$200; plans and specifications on file at office of W. E. Tokey or of Smith & Parr, architects, South McAlester, Okla. (See "Schools.")

Heating Plant.—Tupelo Cotton Mills, Tupelo, Miss., wants prices on heating system for schoolroom.

Heating Plant.—Chas. Miller, Little Rock, Ark., wants bids on heating for school at Paris, Ark.

Heating Plant.—F. E. Giesecke, college architect, Houston, Texas, invites bids until April 24 for furnishing labor and materials necessary in erection of low-pressure steam heating system for engineering building of A. and M. College, according to plans and specifications on file in office of Mr. Giesecke.

Hoisting-engine Attachment.—L. C. Levick, Muscatine, Iowa, wants attachment, to be operated in connection with Lidgerwood hoisting engine, for swinging derrick boom; second-hand preferred.

Hoisting Engine.—W. M. Lundy & Son, Johnson City, Tenn., want prices on gasoline hoisting engine.

Ice and Cold-Storage Machinery.—F. W. Holden, 374 George St., Sydney, Australia, wants quotations on ice and cold-storage machinery.

Ice Plant.—N. B. McLean, West, Texas, wants prices on equipment for ice plant.

Kettles.—J. T. Dent & Son, R. F. D. No. 1, Brunswick, Ga., want kettles for "Tophet-sauce" cooking.

Lace Leather.—Stanton Foundry & Machinery Co., Palatka, Fla., wants name of manufacturers of "Coups" lace leather.

Laundry Machinery.—C. R. Steinmann, Lone Star Steam Laundry, Yoakum, Texas, wants mangle and other minor laundry machinery.

Limekilns.—W. M. Lundy & Son, Johnson City, Tenn., want to correspond with manufacturers of limekilns (Coleman preferred).

Locomotive.—Peacock's Iron Works, Selma, Ala., wants standard-gauge 10 to 12 ton locomotive, direct connected to tank or tender, attached direct to locomotive or separate, on two or four wheels.

Locomotives.—A. V. Kaiser & Co., 739 Drexel Bldg., Philadelphia, Pa., want four to six saddle-tank tankies, 8-inch or 9-inch cylinders, 10 to 13 tons; complete details first mail; prices knocked down in export shipping shape, f. o. b. alongside steamer New York, for shipment to Cuba.

Linotype Machine.—Courier Publishing Co., Lockhart, Texas, wants linotype machine.

Machine Tools.—The Gas Engineering Co., Trenton, N. J., wants electric portable drill and reamer.

Machinery and Mill Supplies.—No. 429, care of Manufacturers' Record, 543 Century Bldg., St. Louis, Mo., wants to represent, as manufacturers' agent, lines suitable for machine shops, foundries, etc.

Mantels.—Sam'l S. Rountree, Quitman, Ga., wants prices on mantels for \$7000 dwelling.

Mantels.—McCord Mantel Co., 103 South Forsythe St., Atlanta, Ga., wants marble and brick mantels.

Manufacturers.—Eugene Mathews & Co., Clifton Forge, Va., want to represent manufacturers.

Marine Engines.—See "Engines."

Medicines.—Acme Drug Co., 125 East Main St., Raleigh, N. C., wants jobbers' prices from manufacturers of patent medicines.

Metal Ceiling.—Geo. A. Coleman, Rustburg, Va., wants prices on metal ceiling.

Metal-working Machinery.—Federal Screens Co., 918 F St. N. W., Washington, D. C., wants machinery for bending, forming, punching, riveting and japanning sheet steel of 20 gauge.

Mill Work.—J. A. Litchfield, 108 Windsor Ave., Norfolk, Va., wants prices on inside trimmings, sash, doors and blinds, cabinet mantels, etc.

Miscellaneous Supplies.—Bids will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until May 10 for furnishing supplies during fiscal year ending June 30, 1910, as follows: Manganese steel castings, sanitary fixtures, valves, hose couplings, cocks, pipe fittings, etc. Blanks and general information relating to Circular No. 504 may be obtained at above office or offices of assistant purchasing agents, 24 State street, New York; Customhouse, New Orleans; 1086 North Point street, San Francisco, Cal.; also from U. S. Engineer offices in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Movable Towers.—Bids will be received at office of General Purchasing Officer Isthmian Canal Commission, Washington, D. C., until May 12 for furnishing 12 movable towers, with necessary side and back forms. Blanks and general information relating to Circular No. 505 may be obtained at above office or offices of assistant purchasing agents, 24 State street, New York; Customhouse, New Orleans; 1086 North Point street, San Francisco, Cal.; also from U. S. Engineer offices in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Oil.—Tar River Lumber Co., Rocky Mount, N. C., is open for bids for oil supply on contract.

Paper Manufacturers.—J. F. Bailey, Brunswick, Ga., wants names and addresses of paper manufacturers.

Paving.—Street Commission, Columbia, S. C., will receive bids until April 26 for laying strip of granolithic sidewalk on each side of Main street from Gervais street to Laurel street, containing 1600 square yards; plans and specifications on file in City Engineer's office, Room 8, City Hall; certified check \$300. A. W. Edens, City Engineer.

Paving.—Mayor and Board of Councilmen, Gainesville, Ga., will receive bids until May 4 for furnishing material and labor for following work: About 17,000 square yards street paving (vitrified brick, wood block, bitulithic or granitoid blocked pavement), with necessary granite curb, as specified; certified check \$1200; plans and specifications at office of James H. White, City Clerk, and specifications mailed upon application to H. S. Jaudon, engineer, Box 111, Gainesville, Ga. John B. Rudolph, Mayor.

Paving Bricks.—Bids will be received at office of City Clerk, Portsmouth, Va., addressed to Street Committee, until May 6 for furnishing city 14,000 sidewalk paving bricks; price bid, per thousand, to be f. o. b. cars or in cartons on wharf in Portsmouth; each bidder to deliver to Bascom Sykes, City Engineer, not later than April 30, six samples of bricks, marked with name of bidder; certified check \$100, payable to George A. Tabb, City Treasurer, E. B. Hawks and S. T. Montague, chairman Street Committee.

Paving.—Sealed proposals will be received by Franklin, La., until April 22 for laying 7900 square feet of brick curbing and 31,719 square feet of cement sidewalk. For further information, specifications, etc., apply to J. C. Lewis or to Charles N. Frost, Mayor pro tem.

Paving.—Bids will be received at office of Charles R. Kennedy, Comptroller, New Orleans, La., until April 19 for paving with old square granite block Louisiana street, from Royal to Urquhart street, in accordance with plans and specifications on file in office of City Engineer; deposit \$100 with City Treasurer; City Engineer will furnish blank form of proposal.

Paving.—Robert Tait, City Treasurer, Montgomery, Ala., will receive bids until April 19 for paving with clay gravel roadway of Forest avenue, from Highland avenue to city limits, together with necessary granite curbing, sewerage, grading and other work; plans, specifications, etc., on file in office of City Engineer; certified check, \$500. (Date postponed from April 5, as lately reported.)

Pile-driving.—Proposals will be received at office of H. B. Wright engineer Tazewell division of Pocahontas Consolidated Collieries Co., Pocahontas, Va., until April 24 for driving 6000 feet of double 6 feet by 6 feet entry on Pocahontas seam. Forms of proposal, plans, specifications and estimates can be obtained on application.

Piping.—See "Well-drilling Machinery."

Piping.—See "Well Machinery."

Planer.—J. A. Mitchener, Franklinton, N. C., wants planing machine.

Plumbing.—See "Electric Wiring."

Plumbing.—Chas. Miller, Little Rock, Ark., wants bids on plumbing for school at Paris, Ark.

Printing.—E. F. Vandivere, Recorder, Etowah, Tenn., wants samples of bonds.

Pumps.—Tampa Towing & Lighterage Co., Box 113, Tampa, Fla., wants steam fire pump, two turret nozzles and six connections for standard fire hose.

Rails.—Pittsburg Land & Lumber Co., P. O. Box 890, Pittsburg, Pa., wants 80 tons 25-pound steel rails f. o. b. Columbia, N. C.

Rails.—Peacock's Iron Works, Selma, Ala., wants six miles second-hand 25-pound relay rail.

Rails.—Frank T. Reynolds, 111 Miller Bldg., Chattanooga, Tenn., in market for 20 miles of 60-pound relaying steel rails.

Railway Equipment.—See "Cars."

Road Construction.—O. S. Hawkins, secretary of Parkersburg-Williamstown Boulevard Association, Parkersburg, W. Va., wants information on methods and equipments for constructing permanent roads.

Road Construction.—Sealed bids will be received by Board of Supervisors of Accomac County, Accomac, Va., until May 3 for widening to 30 feet and raising 2½ feet above its present level 1000 yards of road leading from Saxs Island to the mainland of Accomac county. For further information apply to William L. Nock, chairman Board of Supervisors, Temperanceville, Va.

Road Construction.—E. D. Robertson, Commissioner, Charlotte Court House, Va., wants data on methods and machinery for road construction; \$150,000 available.

Road Construction.—Sealed proposals will be received by Board of County Commissioners, Winston-Salem, N. C., until May 5 for constructing macadam road five miles in length. For specifications, forms of proposals, etc., address County Clerk of Forsythe County.

Road Construction.—Clerk Board of Ohio County Commissioners, Wheeling, W. Va., will receive bids until April 20 for paving one mile of River road. Plans and specifications on file at clerk's office or of A. S. Bell, county engineer, City Bank Building.

Road Construction.—War Department, Office Depot Quartermaster, Washington, D. C.—Sealed proposals will be received until May 5 for constructing macadam road in Arlington National Cemetery, Virginia. Plans and specifications and full information can be had on application to above office. Address M. Gray Zalinski, Major and Quartermaster, U. S. Army, Washington, D. C.

Road Machinery.—Hobbs-Ives Equipment & Machinery Co., Norfolk, Va., wants 10-ton steam road roller, 20 to 25 horse-power traction, and several dump cars or wagons for same; new or second-hand.

Roofing Machinery.—J. E. Hitt, Augusta, Ga., wants to correspond with manufacturers of machinery for making tar or asphalt coated roofing from cotton or other fiber.

Sawmill Machinery.—American Metallic Packing Co., Lexington, Ky., wants steam feed, steam nigger and log jack of medium size, suitable for six-foot band-saw mill; give description, prices, etc., in first letter; f. o. b. Lexington.

Seating.—Building Committee, Presbyterian Church, will receive bids May 14 for seating. Address H. W. Simpson, 68 Broad St., architect, Newbern, N. C.

Seawall and Dredging.—Sealed proposals will be received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until May 8 for constructing seawall and dredging, Navy-yard, Norfolk, Va. Plans and specifications can be obtained on application to bureau or to commandant of Navy-yard named; R. C. Hollyday, chief of bureau.

Sewer Construction.—City of Manning, S. C., will receive bids until April 29 for sewer construction; work consists of about 8500 feet of vitrified pipe, 8 and 10 inches, and 15 manholes; plans and specifications at office of Lee & McLellan, consulting engineers, Sumter, S. C.; certified check \$300; R. C. Wells, Town Clerk. (Date postponed from April 15, as lately stated.)

Sewer Construction.—Bids will be received until May 3 for laying sanitary sewer on South Lawrence street, from present terminus to Clanton street, and on Maury street, from present terminus to Norman Bridge road; plans and specifications on file in office

of City Engineer, Montgomery, Ala.; certified check for 5 per cent. of estimate. Robert Tait, City Treasurer.

Sewer Construction.—See "Water-works, etc."

Shears.—Second-hand Pipe & Supply Co., Cor. Avery and Third Sts., Parkersburg, W. Va., wants new or second-hand shears, capacity 1 to 1½ inches, for cutting scrap-iron.

Sheeting.—Jas. L. Jones, 414 North Fant St., Anderson, S. C., wants 90-inch sheeting, bleached and unbleached.

Shoe Machinery.—F. W. Holden, 347 George St., Sydney, Australia, wants quotations on boot machinery.

Stave Machinery, etc.—W. M. Lundy & Son, Johnson City, Tenn., want to correspond with manufacturers of stave machinery, also with cooperage firms.

Steam Shovel.—See "Contractor's Equipment."

Tar.—See "Roofing Machinery."

Telephone Equipment.—Chester Telephone Co., Chester, S. C., wants cable terminals.

Tramway.—Linn Creek Bridge Co. (A. J. Watson and others), Linn Creek, Mo., wants equipment for tramway.

Transmission Machinery.—Hagerstown Silk Co., Hagerstown, Md., will want transmission machinery; is operating by electricity.

Trucks.—Tanfield 24-Hour Drykiln Co., Box 386, Washington, N. C., wants names of manufacturers of drykiln trucks for lumber.

Water Main.—Board of City Commissioners, Galveston, Texas, will receive bids until May 12 at office of John D. Kelley, City Secretary, for furnishing materials and constructing 8-inch cast-iron water main across Galveston Ship Channel from Pier 14 to U. S. Government Dyke, thence along dyke to Immigration Station; will require 1500 linear feet of submerged pipe and 2500 linear feet of shore pipe; submerged pipe to be laid 42 feet below mean low tide; dredging will amount to 35,200 cubic yards; work to be done in accordance with plans and specifications prepared by A. T. Dickey, City Engineer, furnished upon application; certified check for 5 per cent. of amount of bid. H. C. Lange, Commissioner of Water-works and Sewerage.

Water-works.—Sealed bids will be received by Water-works Committee, Waynesville, N. C., until April 22 for erection of 500,000-gallon filter plant, with coagulating basin, and 250,000-gallon reservoir, all of reinforced concrete; detail plans and specifications at office of G. W. Maslin, chairman, at Waynesville, or of J. L. Ludlow, engineer, Winston-Salem, N. C.; certified check 5 per cent. of bid.

Water-works, etc.—Town Council, Clearwater, Fla., will receive bids until April 26 on complete system of water-works and sewers; specifications provide for either steam or gasoline plant; certified check for 3 per cent. to accompany bid; plans and specifications on file at office of the Holmboe Company, engineer, Louisville, Ky., or T. J. Sheridan, clerk; specifications furnished on application to engineers for \$2 each, and blueprints by depositing \$10. M. H. Eldridge, president of Council.

Well-drilling Machinery.—St. Martinville Oil & Mineral Co., Ltd., F. Z. Power, secretary and treasurer, St. Martinville, La., wants rotary outfit, boiler, engines and pipes for drilling oil well.

Well Machinery.—W. L. Donovan, Lampasas, Texas, wants prices on well machinery, including drills and other tools, pipe casing, etc.

Windmill.—W. L. Donovan, Lampasas, Texas, wants agency for windmill.

Woodworking Machinery.—See "Planer."

Wooden Ladies, etc.—J. T. Dent & Son, R. F. D. No. 1, Brunswick, Ga., want wooden stoppers and ladders.

Woodworking Machinery.—Ronda Aprian Supply Co., Ronda, N. C., wants quotations on new or second-hand dowl machines to turn ¾-inch stock; also second-hand lathe mill.

## INDUSTRIAL NEWS OF INTEREST

### Wants to Represent Manufacturers.

Eugene Mathews & Co., Clifton Forge, Va., want to represent manufacturers in Virginia and West Virginia, and they invite correspondence.

### To Handle Wood Dishes.

W. H. Allen, Belzoni, Miss., wants to arrange for disposal of output of oval wood dishes. He will install mill to manufacture 75,000 daily.

### For the Seafie Company.

The Wm. B. Seafie & Sons Company, Pittsburg, Pa., has received contract from the

Standard Steel Co., Cleveland, Ohio, for the structural steel work for several new buildings to be erected near Bedford, Ohio.

### Stevens Rifles for .22 Shorts.

The J. Stevens Arms & Tool Co., Chicopee Falls, Mass., calls attention to the fact that its Stevens visible loading repeating rifle No. 70 is made for .22 short cartridges. These rifles are offered to shooters desiring an efficient and durable firearm.

### The DuBois Pittsburg Offices.

It is announced by the DuBois Iron Works of DuBois, Pa., that the company's Pitts-

burg offices have been removed from 1206 Park Building to more commodious quarters at 1429 Park Building, Pittsburg, Pa. G. E. Webb is the company's Pittsburg manager.

#### Manufacturers' Agency Seeking Products.

A St. Louis manufacturers' agency wants lines suitable for machine shops, foundries and kindred manufacturing plants. For information address No. 429, care of Manufacturers' Record, 543 Century Bldg., St. Louis, Mo.

#### Star Expansion Bolt Co.

The Star Expansion Bolt Co., Bayonne, N. J., has removed its general offices to 147 Cedar street, New York, where a complete stock of its products will be maintained at all times. This company is well known for its standard line of expansion bolts, toggle bolts, cable hangers, drills and drill holders.

#### W. H. Smead Removed to Atlanta.

W. H. Smead, mechanical engineer, making a specialty of designing heating and power plants, has removed from Greensboro, N. C., to 207 Prudential Bldg., Atlanta, Ga. He will continue the general engineering to which he has heretofore given his attention.

#### Representative of Whiting Company.

The Whiting Foundry Equipment Co., Harvey, Ill., has appointed L. G. Henes its representative for selling cranes and foundry equipments of Whiting manufacture in California, Nevada and Arizona. Mr. Henes has his offices in the Monadnock Building, San Francisco.

#### Ideal Electric Supply Co.

The Ideal Electric Supply Co. of Frederick, Md., has established a general electrical supply enterprise and is prepared to undertake contracts. It will repair and install electric motors, generators and other electrical equipment, repair adding machines and typewriters, etc. Ira S. P. Fahrney is manager.

#### Big Order for Portland Cement.

One of the largest orders for cement for sidewalk improvements in the Birmingham (Ala.) district was that awarded to the Standard Portland Cement Co. of Leeds, Ala. This order was shipped in five trains of 25 cars each, 125 barrels of cement on each car. Another big order for the company's cement was 30 trains of 25 cars each, 120 barrels to each car, for the Tennessee Coal, Iron & Railroad Co. of Birmingham.

#### Represented at Southern Convention.

The Carborundum Company of Niagara Falls, N. Y., will be represented at the Southern Supply Dealers' Association convention to be held at Chattanooga, Tenn., on May 5, 6 and 7. Its representatives will be W. W. Sanderson, manager of the Pittsburg offices; Luther Broadus and W. L. Meek. They have an extensive acquaintance with Southern manufacturers and will be pleased to receive their friends and investigators of carborundum products.

#### For Steele Brick Machinery.

J. C. Steele & Sons, manufacturers of brickmaking machinery, Statesville, N. C., report a great improvement in the brick industry and have recently shipped complete brickmaking outfits to Loris, S. C.; Hollywood, Ala.; Mt. Airy, N. C.; Marietta, S. C.; Columbiana, Ala.; Thomaston, Ala.; Emporia, Va.; Easton, Md.; Jefferson City, Tenn.; Tuscaloosa, Ala.; Crisfield, Md.; Greensboro, N. C.; Riverdale, N. C.; Apex, N. C.; Athens, Ga.; and Bonsal, N. C.

#### Robins New Conveyor Co.

The Robins New Conveyor Co. has leased the entire building at No. 72 Front street, New York, and on April 1 removed its offices from No. 38 Wall street to the new location. The machinery and other effects of the Duane-street factory are now being removed. Constant and material increase in the company's trade is responsible for the change of location and the combining of offices and factory. Greatly increased facilities are provided by the new location, particularly for the manufacture of Robins laminated leather belting and Robins genuine Balata belting.

#### Cocoon Oil Plant Offered.

Manufacturers who may be prepared to give consideration to the purchase of a cocoon-oil plant are invited to address Geo. C. Warr, Box 107, Whistler, Ala. He offers for sale a plant located on a site of 35 acres near Mobile, with water and rail transportation available. The plant includes main building 125x190 feet, power-house, electric plant, 25,000-gallon water tank, heading and

stave cutting mill, machinery for handling 25,000 coconuts daily, etc., besides two storage-houses in Honduras with a capacity of 800,000 coconuts. Proposals must be submitted by April 26.

#### Important Contract for Mesker & Brother.

The contract of furnishing about 75,000 square feet of metal fireproof wire-glass windows for the locomotive, machine and erecting shops of the Delaware, Lackawanna & Western Railway at Scranton, Pa., has been awarded to Mesker & Brother, 421 to 519 South 6th St., St. Louis, Mo. The work is well advanced and the great capacity of the Mesker window plant will insure its early completion. The metal windows on this contract are all being constructed under the rules and requirements of the National Board of Fire Underwriters.

#### Saving Cost of Engine in a Year.

The American Blower Co. of Detroit, Mich., has received the following letter, dated March 20, 1909, from the Provident Chemical Works of St. Louis: "The generator direct connected to one of your type A self-oiling engines, purchased by us some four or five months ago, is doing fine service. As to the cost of operation, it is so small our engineer has never been able to figure it out, but he is confident the cost does not exceed \$7.50 per month for about 120 16-candle-power lamps. We figure the cost of the entire outfit will be saved in considerably less than a year's time from date of instalment. Our only regret is we did not install this outfit long ago."

#### The Latrobe Foundry Co.

The Latrobe Foundry Co., Baltimore, Md., has been organized to do a general foundry business, manufacturing gray iron, semi-steel, brass and bronze castings and grate bars. It has leased a foundry at Allen and Clement streets, where five tons of gray iron or semi-steel and about 1800 pounds of brass or bronze will be produced daily. The plant is 167 feet by 55 feet, and is well equipped for the manufacture of special castings for machinery. Ferdinand C. Latrobe, Jr., has associated with him John C. Shane, whose wide experience and knowledge of this character of work qualifies him to supervise the manufacture of the company's products. The company is planning to expend effort in furtherance of its trade in the South.

#### For 100,000 Barrels of Cement.

One of the largest contracts for cement ever placed in Canada has been awarded by the Frank B. Gilbreth organization to the Vulcan Portland Cement Co., whose works are at Longue Pointe, Quebec, through its agent, the William G. Hartranft Cement Co., Ltd., of Montreal, Canada, the Canadian branch of the Hartranft Company of Philadelphia. The order covers the entire cement requirements and will amount to nearly 100,000 barrels of cement, which will be tested at the company's storage bins, where it will be reserved under seal and shipped in carload lots to the job as required, thus assuring the contractor that the cement will be up to the standard requirements when received.

#### A Milliken Bros. Contract.

The Recelvers of Milliken Bros. (Inc.) have the subcontract for the steel work superstructure and grillage beams for the Whitney-Central 14-story bank and office building at New Orleans. This contract calls for about 3000 tons. The majority of the beams and H columns will be manufactured by the Bethlehem (Pa.) Steel Co., and the material will be fabricated at the Milliken shops on Staten Island. There will be no riveting to the columns except for connections. The contract was closed with William E. Joor, Southern Milliken Bros. representative, 612 Hennen Bldg., New Orleans. The grillage will be delivered in three months and the building will be completed by December. The principal office of the Recelvers of Milliken Bros. is in the Bowling Green Building. Other recent New Orleans work of the company is the steel superstructure of the Monteleone Hotel and the Knights of Pythias seven-story building, and it has contract for the steel for the Harris county courthouse at Houston, Texas. This is the first important subcontract for the Whitney Central Building to be let by Geo. J. Glover, general contractor, New Orleans.

#### TRADE LITERATURE.

##### How to Use Old Dominion Cement.

A booklet published by the Wm. G. Hartranft Cement Co., Real Estate Trust Building, Philadelphia, Pa., describes in detail the

best methods to follow and mixtures to use to get the most desirable results from Old Dominion Portland cement. Cement users can obtain many valuable hints from this pamphlet.

#### The Mason Drawing Frame.

Textile manufacturers are advised that the Mason Machine Works has issued an illustrated leaflet describing the Mason drawing frame, this publication being a reprint of the unsolicited description which appeared in the Textile World Record last August. The principal offices and plant of the Mason Machine Works are at Taunton, Mass.

#### Pumps for Every Service.

Types of pumps for every service are designed and built by the DuBois Iron Works of DuBois, Pa. This company is now distributing its illustrated bulletin "E P—No. 3," which presents information relative to the DuBois motor, gasoline engine and belt-driven pumps offered in capacities ranging from 25 to 1000 gallons per minute.

#### The Cortright Advocate for April.

In the April Cortright Metal Shingle Advocate will be found timely data and illustrations relative to the advantages claimed for the use of the metal shingles and supplies manufactured by the Cortright Metal Roofing Co., 50 North 23d St., Philadelphia, and 134 Van Buren St., Chicago. Dealers in roofing, contractors for roofing and people who own buildings requiring roofing should read the Cortright publication.

#### Christopher Columbus and Carborundum.

The Carborundum Co., manufacturer of abrasive materials, Niagara Falls, N. Y., has issued a booklet containing a clever satire on Christopher Columbus, written by F. W. Haskell, president of the company. The leaflet is of a humorous nature, besides referring to the discovery of carborundum and that the material is now recognized as an efficient and economical abrasive or grinding material.

#### For Engineer and Fireman.

Interesting and timely information for the engineer and fireman is presented in the Penberth Engineer and Fireman for April. The publication includes selections from the best engineering and electrical journals, including references to home study for engineers, condensers and air pumps, mechanical refrigeration in metallurgical practice, materials used in boiler-making, repairing old machinery, etc. Copies can be obtained by addressing the publication at 372 Holden avenue, Detroit, Mich.

#### The Barrett Specification.

An interesting leaflet is being distributed by the Barrett Manufacturing Co., New York, Philadelphia, New Orleans and other cities. It presents a photographic view of the Massachusetts Mills, Lowell, Mass., with 300,000 square feet of roofs laid along the lines of the Barrett specification, and a river view of Lowell mills with 1,500,000 square feet of roofs along the same lines. Many of these roofs are from 20 to 35 years old and are in good service today. Only one form of roof covering is used on the permanent buildings—coal-tar pitch, tarred felt and gravel, on the Barrett Specification.

#### Clark Trucks and Casters.

Catalogue No. 9 of the Geo. P. Clark Company presents illustrations, prices and brief descriptions of the Clark hand, platform and special trucks, rubber and iron wheel truck casters, etc. These articles are for use in stores, offices, banks, hotels, warehouses, factories, mills, brick and stone yards and elsewhere. They have been perfected in design and manufacture through many years of experience by the Clark Company and have become well known to purchasers throughout the country. The Geo. P. Clark Company has its offices and factory at Windsor Locks, Conn.

#### Safety Valve Capacity.

"Safety Valve Capacity" is the title of a book presenting the paper read before the American Society of Mechanical Engineers in February by Philip G. Darling, mechanical engineer of the Consolidated Safety Valve Co., 85 Liberty St., New York. The book also contains valuable data and tables compiled by the author from extensive tests, and it is published for distribution among the various mechanical and steam engineers of the country. The company is the sole manufacturer of the Consolidated pop safety valve and other safety and relief valves of every description.

#### Terry Steam Turbine Co.

Announcement is made by the Terry Steam Turbine Co. that it has transferred its sales department from the works at Hartford, Conn., to the New York office at 90 West street, New York City. Frederick D. Herbert has been appointed general sales manager and will have entire charge of all selling negotiations. The company has numerous orders on file, and its plant is now operating 24 hours per day, this being the new plant completed last January. Low-speed steam turbines direct connected to dynamos, pumps, blowers, etc., constitute the product of the Terry plant.

#### Lehigh Portland Cement Literature.

Several leaflets issued by the Lehigh Portland Cement Co. are of interest to people concerned with the use of Portland cement for reinforced concrete construction. The leaflets are illustrated and refer respectively to the first concrete fireproof school building, the reinforced concrete construction employed in the erection of the Fisher automobile garage, and the reinforced concrete storage annex built for the American Hominy Co., all at Indianapolis. The Lehigh Portland Cement Co.'s offices are at Allentown, Pa., and Cleveland, Ohio.

#### Factory Organization and Cost.

Managers of industrial plants will be interested in the announcement that "Nicholson on Factory Organization and Costs" will be ready for delivery about May 1. This publication will be a standard work on the subject, including organization and cost finding, wage systems, analysis of cost and accounting, distribution of indirect expenses, general introduction to forms and systems, time tickets, stock records, cost records, statement of factory expenditure, etc. J. Lee Nicholson, certified public accountant and factory-cost specialist, is the author of the book, and the publisher is the Kohl Technical Publishing Co., 346 Broadway, New York.

#### New Westinghouse Literature.

Recent publications of the Westinghouse Electric & Manufacturing Co., Pittsburg, Pa., include: Circular No. 1100, relative to the Westinghouse multiple tungsten lamps for alternating or direct-current circuits; circular No. 1164, covering type MS mill motors for polyphase alternating-current circuits and describing the essential features of the first squirrel-cage induction motor designed especially for mill service; textile-motor talks No. 6, covering the operation of fly frames by motor; motor talks No. 4, containing the usual interesting discussion on the diversified uses of the electric motor.

#### The Stuart & Peterson Company.

Trade literature that will interest chemists, bottlers, druggists, soap manufacturers and others includes the Stuart & Peterson Company pocket catalogues. Catalogue No. 315 describes and illustrates hollow-ware and specialties; No. 216 relates to appliances for chemists, druggists, butchers and others; No. 206 tells of furnaces, heaters, ranges and stoves. The Stuart & Peterson Company is located at Burlington, N. J., and manufactures a complete line of plain and porcelain-lined ware, steam jacketed kettles, ice-cream cans, hardware and specialties, hot-water stores and various other supplies and appliances for which there is a general demand.

#### The Howe Scales.

Scales for all purposes are manufactured by the Howe Scale Co., and this company is now distributing its illustrated price-list. The Howe scales are offered in designs for stores, warehouses, factories, mills, grain elevators, offices, coal plants, freight piers, railway tracks and every other place where accurate weighing machines are required. The Howe catalogue describes numerous types of scales made by the company, and will be found of interest to all who are concerned with improved weighing devices. These scales are manufactured by the Howe Scale Co. at Rutland, Vt., and the Howe Scale Co. of New York, 341 Broadway, New York, will furnish copies of the catalogue.

#### The Standard Motors and Generators.

For 13 years the Robbins & Myers Company has been closely identified with the manufacture of small direct-current motors of 15-horse-power and under, attention and facilities being concentrated on these limited sizes so that the machines offered have been developed to a high degree of perfection. The products of the company have always been characterized by solidity of construction, efficiency and durability in service. The Standard motors manufactured by the company are fully described, and the text is accompanied by numerous photographic views, in the Standard motor book for 1909.



The Robbins & Myers Company has its main offices and plant at Springfield, Ohio, and agencies in the principal cities.

#### Economic Operation of Power Plants.

Managers of power plants are presumably on the alert to acquire information relative to the economical operation of their establishments. They will find of timely interest the illustrated leaflet entitled "Is the Economic Operation of Your Power Plant a Problem?" This publication refers especially to a line of steam specialties which have been on the market for years and have the approval of the foremost power-plant operators, mechanical engineers, master mechanics and others interested in power-plant devices. Its contents include mention of the Williams safety feed-water regulator, with which 4,500,000 horse-power boilers are equipped. The Williams Gauge Co., steam specialty manufacturer, 543 Fourth Ave., Pittsburg, will supply copies of the leaflet.

#### The Home of Good Paint.

An attractive publication is the illustrated booklet entitled "The Home of Good Paint," issued by the Detroit Graphite Co. of Detroit, Mich. This booklet explains briefly the facilities of the company for the manufacture of good paint and describes the extreme care that is exercised in the preparation of every gallon of its product. Various photographic views are presented of the exterior and interior of the company's plant, and its history is told concisely. Other photographic views include the Pennsylvania Railroad station in New York, for which the company furnished 22,000 gallons of paint, and the Plaza Hotel, New York, whose 12,000 tons of structural steel is protected by the Superior graphite paint manufactured by the company.

#### Improved Standard Safety Boilers.

In presenting its latest catalogue the North American Boiler Co. does not think it necessary to discuss the superiority of the water-tube over the old-style tubular boiler. This company is the sole builder of the Improved Standard safety boilers of three types—one with the steel water leg, another with the nine-tube section, and the third with the four-tube section. These boilers have been on the market for years, and the company believes they embody everything necessary to the best steam practice. The North American Boiler Co. has its general offices in the Fort Dearborn Building, Chicago, and is now distributing its illustrated catalogue, which tells of the simplicity of design, efficiency, durability of construction and economy of operation claimed for its boilers.

#### Hard Water Made Soft.

A timely publication is "Hard Water Made Soft," now ready for distribution among people who are interested in improved mechanical equipments for water softening on a small or large scale. It is illustrated with photographic views and describes the Booth water softener, telling of its special advantages and uses and the success attained with it for water purification, boiler feed, laundries, municipal and private use, neutralization and purification of corrosive-acid waters for cooling and condensing, etc. Different chapters in the publication refer to soft water for municipal supplies, automatic chemical regulation, water-softener specification operation of the type F Booth softener, etc. The L. M. Booth Company, 136 Liberty St., New York, and Fisher Bldg., Chicago, is the owner and manufacturer of the Booth equipment for water softening.

#### Foos Gas and Gasoline Engines.

One of the best-known gas and gasoline engines offered to power users is that manufactured by the Foos Gas Engine Co. of Springfield, Ohio. The company is now distributing its catalogue No. 21, which describes the Foos horizontal single-cylinder engines in a few of their many combinations. Besides this type the company manufactures the Foos vertical heavy-duty engines in two, three and four cylinder types, suitable for power plants from 20 horse-power to 500 horse-power, and especially for belted or direct-connected electric installations and water-works. These engines are furnished to operate from natural or artificial gas, producer gas, gasoline, naphtha, distillate, alcohol and other liquid fuels. Foos engines have been on the market 25 years and have given satisfaction to many users. They are designed on the well-known four-cycle principle, giving an impulse at alternate revolutions of the flywheel.

#### Road Rollers and Contractor Engines

People who are interested in earth-moving machinery are invited to investigate the new

features aiming to increase the amount of work possible and decrease the expense of operating in the New Huber road rollers and contractor engines. These machines are built for all kinds of contract work, plowing, hauling, etc. The claims are stated to be based on actual facts and are presented by illustration and description in the Huber Manufacturing Co.'s illustrated catalogue. The Huber machine is easily guided and controlled by one man; it moves with a constant and uniform motion at whatever speed is best suited to the work; it requires little space and turns in a small space. The company's steam roller has the good points of the contractor engine and many features that are stated to be superior in the particular line of work for which it is intended. The Huber Manufacturing Co. is located at Marion, Ohio.

#### For the Man Who Builds.

The man who builds is invited to address the American School of Correspondence for information relative to that institution's Cyclopedia of Architecture, Carpentry and Building. This publication is a practical and comprehensive exposition of the practice and possibilities of the modern building trades. It is of value to the architect or the prospective house owner, to the contractor or the renting agent, to the carpenter or the student. It ranges from the modern two-story frame cottage to the building of steel and reinforced concrete; from the drawing of plans to the awarding of the contract and the acceptance of the completed structure; from the masonry wall or steel frame to the interior decoration, plumbing and heating. Descriptive pages of the cyclopedia can be obtained by addressing M. L. Barlingham, State secretary of the American School of Correspondence at Chicago.

#### Buda Foundry & Manufacturing Co.

The Buda Foundry & Manufacturing Co. is now distributing the 1909 edition of its catalogue of track supplies and railway materials of all kinds. These products include equipments for water softening, motor vehicles, section motor cars, handcars, pushcars, bridge jacks, car jacks, replacers, scales, track drills, switchstands, semaphores, tracks, frogs and numerous other articles required for railway systems. Many additions and improvements have been added to the Buda line and will interest purchasers of this class of equipment. The company's catalogue is a cloth-bound volume of more than 400 6x9-inch pages. The company has its main offices in the Railway Exchange, Chicago, and its manufacturing plant at Harvey, in the suburbs of Chicago. Its branch offices are at 25 Cortland street, New York, and in the Frisco Building, St. Louis.

#### Van Auker Vacuum Heating.

The Van Auker system of vacuum heating is specified for factories, foundries, mills, hotels, colleges, office buildings, hospitals, Government buildings and all other structures where an efficient and economical heating plant is required. This system includes such specialties as are necessary to give the highest efficiency to the type of installation required. All the devices used are of special design, manufactured under the personal supervision of experts and subjected to thorough tests before leaving the factory. An illustrated book describing the Van Auker system is now being distributed by the Consolidated Engineering Co., which manufactures and offers the system to architects, engineers, contractors or building owners who desire to develop the best type of installation for heating purposes for any building in which they may be interested. The company's main offices and factories are at Chicago.

#### Wyckoff Wood Pipe.

The subject of Wyckoff wood pipe is interestingly discussed in a current publication. This publication does not aim to present a full and exhaustive treatise on wood-stave pipe, but it does set forth wood-pipe information in such shape as is believed will be useful and instructive to those who may be interested in purchasing and laying conduits for carrying water of all kinds and for all purposes. Wyckoff wood-stave pipe is manufactured up to 48 inches in diameter and up to a pressure of 200 pounds per square inch, these sizes having been demanded by purchasers throughout the country. The Wyckoff pipe was patented in 1855, and for many years has been giving satisfaction to users. It is fully described and illustrated in a book now being distributed to tell about machine-made wood-stave pipe for water-works systems, power plants, mill and man-

ufacturing plants, mining and railroad water supplies, besides Wyckoff's waterproof patent steam-pipe covering for underground and exposed steam and hot-water pipe. The Wyckoff Supply Co., Robinson Bldg., Elmira, N. Y., is the general sales agent for the Wyckoff wood pipe and will supply copies of the catalogue.

#### Cresosoted Wood for Diversified Purposes.

The development of the creosoted-wood industry and the diversified uses to which creosoted wood is put are described and illustrated in a pamphlet published by the Wyckoff Pipe & Creosoting Co., 50 Church St., New York. The company's products include creosoted conduits for underground wires, poles, crossarms, anchor blocks and signal posts, piles, cross-ties, fence posts, wharf and bridge timbers, paving blocks, plank and all kinds of creosoted lumber. This company has been making creosoted-wood products for 25 years, and it can point to a number of cases where its products have been removed after long periods and found to be in apparently as perfect condition as when laid. Recent cases were in New York after being down 21 years, and in Philadelphia after 35 years. In the latter case the wood was relaid in another part of the city, which tends to bear out the company's claim of 100 per cent salvage.

#### New System of Water Filtration.

During recent years increasing attention has been directed to the vital statistics of public health. It has been shown that many diseases come from drinking polluted or impure water. If it were possible to get water which had passed through the natural purifying processes met with in nature and have the water delivered at the point of consumption to everyone, the problem would have been solved; but nature does not always deliver it after purifying it. In natural purification the water is slowly percolated by static pressure through dense layers or beds of sand, so that it become pure from a sanitary and organic point of view and entirely suitable for drinking purposes. To imitate as far as possible nature's method of purifying water is the principle of the system devised by the Municipal Filtration Co., 1 Madison Ave., New York. Briefly, this system consists of upward percolation, downward sedimentation and self-cleansing with its own purified water. To thoroughly bring the features of its new system before those studying this important question the company has published a pamphlet illustrating and describing the system and the methods of constructing the filters for various capacities, ranging from 100 gallons a day to units of over 50,000 gallons daily capacity.

#### Virginia Corn Crops.

[Richmond Times-Dispatch.]

The proposal of the *Times-Dispatch* to raise a great cash prize for the upbuilding of the agricultural interests of this State is meeting with a remarkably hearty and widespread response.

As an example of how this proposal is regarded we have received from W. A. Land, editor and owner of the *Blackstone Courier*, a letter in which Mr. Land says:

"You may feel assured of any assistance I can be to the object you have in view of raising a sum to go as a prize for the best corn grown in Virginia. While the South is making rapid strides in its manufacturing industries, greater, perhaps, than any other section, it is and, according to my belief, must for years remain primarily an agricultural section. With this belief, I am convinced that no greater service can be rendered the South, and of course Virginia, than to encourage its agricultural development. Its corn crop is its greatest asset in agricultural products. Therefore, to improve this should mean the greatest benefit."

By the same mail came a letter from J. F. Jackson, president of the *Southern Planter*, in which Mr. Jackson refers to the growing interest taken by the people of Virginia in the corn crop of this State. As Mr. Jackson points out, however, the great increase in the value of the corn crop has been due to the increased value per bushel rather than to the increased production. Says Mr. Jackson:

"The acreage in 1899 (the year of the

census figures of 1900) was 1,910,085, and the quantity produced was 36,748,410 bushels of the value of \$16,233,756 (not \$10,000,000, as stated by Koerner). Last year the acreage was 1,925,000, the yield 50,050,000 bushels and the value \$35,536,000. In 1900 the price was 45 cents per bushel. In December, 1908, the price was 71 cents per bushel, and it was upon this price the value was fixed. There is ample room for the production both of more acres of corn and many more bushels to the acre in the State, as we fall short of producing what we need to meet local consumption. I know sections of the State where farmers are buying corn now at from 80 cents to \$1 per bushel, and where they have to buy every year to feed their stock, and this corn so bought has to come from the West; not a very creditable showing for an agricultural State with the best corn-producing climate in the country and a demonstrated capacity in many trials of ability to make as large or even a larger yield than can be produced in any other State. Within 75 miles of this city 183 bushels per acre has been produced on a single acre, and over 150 bushels per acre over a 20-acre field."

More corn and better corn mean more bacon, more beef, more butter, more meal, more chickens, more eggs. They mean more comfort, more wealth, more happiness, a fuller life and a larger outlook. To keep alive the interest in the corn crop of Virginia and to increase the revenues from that source will be to add immeasurably to the happiness and prosperity of our farmers, the most important and most valuable citizens of this State.

#### Splendid Building Record.

[Birmingham News.]

One of the best evidences of the prosperity of a community is the building activity, especially in a community where there is a demand for new buildings and the investments are attractive. Despite the depression that followed the panic of 1907 the country over, Birmingham went right ahead in the building industry and made a record of which any community might be proud. There was no let-up; in fact, the building operations increased steadily and the record last year was considerably larger than at any time in the history of the city.

But it looks as if the record this year is going to be even larger than it was last year. In the month of March the building operations of Birmingham were nearly 25 per cent. larger than they were for the corresponding month of last year, while the tendency is toward a steady increase. There is good reason to predict the record of this city will be 30 or 40 per cent. larger in 1909 than it was in 1908.

People do not build houses for fun. There must be at least reasonable prospects for fair returns on the investments to encourage this industry. In this district the building industry usually proves a financial success. The activity in this direction shows the confidence of people who have money to invest in the future of the city and district. It is a good sign, and has done much to overcome the effects of the depression of the last year or more as a result of the panic.

The steady increase of building operations has not only demonstrated that a great deal of money has been turned loose in the last six or eight months, but that the builders have faith in the recuperative powers of the city and district. Certainly the record being made in this direction should be a source of encouragement to the business interests of the community to look for a steady improvement in conditions.

**Baltimore-Jacksonville.**

The Travelers and Merchants' Association of Baltimore, which was active in inducing the Merchants & Miners' Transportation Co. to extend its Baltimore-Savannah line service to Jacksonville, which will start about June 1, is circulating literature urging Baltimore merchants and others to extend their business in Florida by means of the new service. The association has in that connection issued a folder setting forth a mass of interesting material facts about the growth of Jacksonville.

The Board of Trade and the Retail Merchants' Association of Asheville, N. C., have appointed a joint committee to further the campaign for the ratification by the voters at the May election of an act instructing the Board of Aldermen to set aside from funds derived from general taxes an amount not less than one-fortieth of 1 per cent. or more than one-tenth of 1 per cent. upon assessed valuation of all taxable property for the purpose of providing a municipal fund for advertising the industrial and other advantages of Asheville.

**FINANCIAL NEWS**

The MANUFACTURERS' RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

**Review of the Baltimore Market.**

Office MANUFACTURERS' RECORD,  
Baltimore, Md., April 14.

Although there was a double holiday, considerable business was transacted in the Baltimore stock market during the past week, and prices improved. In the trading United Railways common sold from 11 to 11½; do. trust certificates, 11¼ to 11½; do. incomes, 54½ to 55½; do. funding 5s, 79½ to 80¼; do. do. scrip, 80 to 81; United 4s, 87½ to 87¾; Consolidated Gas, Electric Light & Power preferred, 79; do. 4½s, 84½ to 84¾; Consolidated Gas 6s, 101½; do. 4½s, 93½; Seaboard Air Line common, 15 to 15½; Seaboard Company common, 14¾ to 16; do. first preferred, 55 to 60; do. second preferred, 27 to 30; Seaboard 4s, 71½ to 72½; do. three-year 5s, 97½ to 98¼; do. 10-year 5s, 98 to 98½; Consolidated Cotton preferred, 23½; Cotton Duck 5s, 79½ to 79¾; G.-B.-S. Brewing 1st, 42.

Bank stock sold as follows: Mechanics', 29 to 28; Farmers and Merchants', 48; Citizens', 39½.

American Bonding sold from 74 to 80; Fidelity & Deposit, 155 to 158½; International Trust, 130; Maryland Casualty, 86; Mercantile Trust, 139 to 147; United States Fidelity & Guaranty, 120 to 123; Continental Trust, 194 to 200.

Other securities were traded in thus: Norfolk & Portsmouth Traction stock, 17½ to 18; Northern Central Railway stock, 106 to 106½; Consolidation Coal, 115 to 116; Colorado Southern 1st 4s, 97¾; Detroit United 4½s, 83¾ to 84¾; Georgia & Alabama Consolidated 5s, 102½ to 103¾; Alabama Consolidated Coal & Iron 5s, 84; Baltimore Electric 5s, stamped, 90¼; Western Maryland Railroad stock, 10 to 11½; Atlantic Coast Line new 4s, certificates, 86; do. Connecti-

cut 5-20s, 80½ to 90; Carolina Central 4s, 93½ to 94; Columbia & Greenville 1sts, 110; Georgia Southern & Florida 5s, 109½; Lexington Railway 5s, 95 to 97; Maryland Electric 5s, 95 to 95½; Maryland & Pennsylvania incomes, 60; Norfolk Railway & Light stock, 21; Atlanta Consolidated Street Railway 5s, 105 to 105½; United Railway of San Francisco 4s, 75¾; Atlantic Coast Line of Connecticut stock, 275 to 285; Georgia Southern & Florida first preferred, 95; Baltimore & Potomac tunnel 6s, 103¾; Georgia, Carolina & Northern 5s, 105 to 106; Memphis Street Railway 5s, 96¾; Baltimore City 3½s, 1930, 100; Charlotte, Columbia & Augusta 1st 5s, 111½; Anacostia & Potomac 5s, 104; Atlantic Coast Line Consolidated 4s, 97½ to 97¾; Florida Southern 3½s, 100; Houston Oil common, 8¾ to 8¾; Atlanta & Charlotte extended 4½s, 100¾; Western Maryland 4s, 84; Baltimore City 3½s, 1928, 100¼; North Carolina 6s, 117; Baltimore City 3½s, 1980, 94¼; Norfolk Railway & Light 5s, 96.

**SECURITIES AT BALTIMORE.**

Last Quotations for the Week Ended  
April 14, 1909.

| Railroad Stocks.             | Par. | Bid. | Asked. |
|------------------------------|------|------|--------|
| Atlantic & Charlotte         | 100  | 98½  | 99½    |
| Atlantic Coast of Conn.      | 100  | 281  | 288    |
| Georgia Sou. & Fla.          | 100  | 25   | 30     |
| Georgia Sou. & Fla. 1st Pfd. | 100  | 94   | 94     |
| Georgia Sou. & Fla. 2d Pfd.  | 100  | 71   | 75     |
| Norfolk Railway & Light      | 25   | 20   | 21     |
| Seaboard Company 1st Pfd.    | 100  | 60   | 60     |
| United Rys. & Elec. Co.      | 50   | 11½  | 11½    |
| <b>Bank Stocks.</b>          |      |      |        |
| First National Bank          | 100  | 146  | 146    |
| Mayland National Bank        | 100  | 170  | 170    |
| Merchants' National Bank     | 100  | 170  | 170    |
| National Exchange Bank       | 100  | 169  | 169    |
| National Howard Bank         | 100  | 13   | 13     |
| National Marine Bank         | 30   | 40   | 40     |
| National Mechanics' Bank     | 10   | 20½  | 20½    |
| Nat. Union Bank of Md.       | 100  | 122½ | 125    |
| Second National Bank         | 100  | 133  | 133    |
| Third National Bank          | 100  | 139  | 139    |
| Western National Bank        | 30   | 35½  | 35½    |

| Trust, Fidelity and Casualty Stocks. | Par. | Bid. | Asked. |
|--------------------------------------|------|------|--------|
| American Bonding Co.                 | 25   | 80   | 80     |
| Baltimore Trust & Guarantee          | 100  | 275  | 300    |
| Continental Trust                    | 100  | 200  | 200    |
| Fidelity & Deposit                   | 50   | 159½ | 159½   |
| Fidelity Trust                       | 100  | 206  | 210    |
| International Trust                  | 100  | 130  | 135    |
| Maryland Trust Pfd.                  | 100  | 94½  | 95½    |
| Mercantile Trust & Deposit           | 50   | 14½  | 15     |
| Union Trust                          | 50   | 71   | 74     |

| Miscellaneous Stocks.      | Par. | Bid. | Asked. |
|----------------------------|------|------|--------|
| Ala. Con. Coal & Iron      | 100  | 35   | 35     |
| Ala. Con. Coal & Iron Pfd. | 100  | 60   | 71     |
| Con. Cotton Duck Common    | 50   | 6    | 7½     |
| Con. Cotton Duck Pfd.      | 50   | 22   | 24     |
| Consolidation Coal         | 100  | 116  | 118    |
| G.-B.-S. Brewing Co.       | 100  | 2    | 3      |
| Georges Creek Coal         | 100  | 85   | 85     |

| Railroad Bonds.                        | Par. | Bid. | Asked. |
|--|------|------|--------|
| Atlanta & Charlotte Ext. 4½s           | 100  | 97¼  | 97½    |
| Atlantic Coast Line 1st 4s, 1902       | 100  | 89½  | 91     |
| At. Const. Line Com. 4s, Cts. 5-20s    | 100  | 83½  | 84     |
| At. Const. Line (Conn.) 4s, Cts. 5-20s | 100  | 102½ | 103    |
| Balto. & Harrisburg Ext. 5s, 1938      | 100  | 94   | 95     |
| Carolina Central 4s, 1940              | 100  | 111  | 111    |
| Charlotte, Col. & Aug. 1st 5s, 1910    | 100  | 101  | 101    |
| Coal & Iron Railway 5s, 1920           | 100  | 108½ | 110½   |
| Col. & Green. 1st 6s, 1916             | 100  | 93¼  | 93½    |
| Florida Southern 4s, 1940              | 100  | 103½ | 103½   |
| Georgia & Alabama 5s, 1943             | 100  | 106½ | 106½   |
| Georgia, Car. & North. 1st 5s, 1929    | 100  | 115½ | 116½   |
| Georgia Pacific 1st 6s, 1922           | 100  | 109½ | 110    |
| Georgia South. & Fla. 1st 5s, 1945     | 100  | 98   | 98     |
| Seaboard Air Line 5s, 10-year, 1911    | 100  | 98½  | 98½    |
| Seaboard Air Line 5s, 3-year           | 100  | 105  | 105    |
| Seaboard & Roanoke 6s, 1916            | 100  | 108  | 108½   |
| Virginia Midland 5th 5s, 1926          | 100  | 102½ | 102½   |
| West Va. Central 1st 6s, 1911          | 100  | 112½ | 114½   |
| Wilmington & Weld. Gold 5s, 1935       | 100  | 112½ | 114½   |

| Street Railway Bonds.              | Par. | Bid. | Asked. |
|------------------------------------|------|------|--------|
| Atlanta Con. St. Ry. 5s            | 100  | 105  | 106½   |
| Augusta Ry. & Elec. 5s, 1940       | 100  | 101½ | 101½   |
| Balto. Sp. Pt. & C. 4½s            | 100  | 112½ | 112½   |
| Balto. Trac. 1st 5s, 1923          | 100  | 115  | 115    |
| Balto. Trac. (N. B. Div.) 5s, 1942 | 100  | 104  | 104½   |
| Charleston City Railway 5s, 1923   | 100  | 90   | 90     |
| Charleston Con. Elec. 5s, 1939     | 100  | 108½ | 109½   |
| City & Suburban 5s (Balto.), 1922  | 100  | 105  | 105½   |
| City & Suburban 5s (Wash.), 1943   | 100  | 114  | 115    |
| Lake Roland Elevated 5s, 1942      | 100  | 93   | 93     |
| Macon Ry. & Lt. 1st Con. 5s, 1933  | 100  | 96½  | 97     |
| Memphis Street Railway 5s          | 100  | 82½  | 85     |
| Norfolk & Portsmouth Trac. 5s      | 100  | 96½  | 96½    |
| Norfolk Railway & Light 5s         | 100  | 87½  | 87½    |
| United Railways 1st 4s, 1949       | 100  | 55   | 55     |
| United Railways Inc. 4s, 1949      | 100  | 80½  | 80½    |
| United Railways Funding 5s         | 100  | 101½ | 102    |

| Miscellaneous Bonds.              | Par. | Bid. | Asked. |
|-----------------------------------|------|------|--------|
| Consolidated Gas 6s, 1910         | 100  | 84¼  | 84½    |
| Consolidated Gas 5s, 1939         | 100  | 94   | 94½    |
| Con. Gas, Elec. Lt. & P. 4½s      | 100  | 41¾  | 42¾    |
| Fairmont Coal 1st 5s              | 100  | 109½ | 113½   |
| G.-B.-S. Brewing 1st 4s           | 100  | 79½  | 79¾    |
| G.-B.-S. Brewing Inc. 4s          | 100  | 94½  | 95     |
| Mt. Vernon-Woodly P. Cot. Duck 5s | 100  | 94½  | 95     |
| United Elec. Lt. & P. 4½s         | 100  | 94½  | 95     |

**SOUTHERN COTTON-MILL STOCKS.**

Quotations Furnished by Hugh Mac-  
Rae & Co., Wilmington, N. C., for  
Week Ending April 12.

| Bid.                           | Asked. |
|--------------------------------|--------|
| Abbeville Cotton Mills (S. C.) | 75     |
| Alken Mfg. Co. (S. C.)         | 85     |
| American Spinning Co. (S. C.)  | 145    |
| Anderson Cotton Mills (S. C.)  | 58     |

|                                      |      |      |
|--------------------------------------|------|------|
| Arkwright Mills (S. C.)              | 100  | 105  |
| Augusta Factory (Ga.)                | 65   | 70   |
| Avondale Mills (Ala.)                | 115  | 125  |
| Belton Mills (S. C.)                 | 115  | 125  |
| Bibb Mfg. Co. (Ga.)                  | 145  | 145  |
| Brandon Mills (S. C.)                | 114  | 114  |
| Cabarrus Cotton Mills (N. C.)        | 120  | 131  |
| Chadwick-Hoskins Mfg. Co. (N. C.)    | 85   | 90   |
| Chadwick-Hoskins Mfg. Co. (N. C.)    | 85   | 90   |
| Chilquola Mfg. Co. (S. C.)           | 132  | 137  |
| Clifton Mfg. Co. (S. C.)             | 103  | 106  |
| Clifton Mfg. Co. (S. C.) Pfd.        | 99   | 101  |
| Clinton Cotton Mills (S. C.)         | 105  | 105  |
| Columbus Mfg. Co. (Ga.)              | 97   | 100  |
| Courtenay Mfg. Co. (S. C.)           | 95   | 105  |
| Dallas Mfg. Co. (Ala.)               | 95   | 105  |
| Darlington Mfg. Co. (S. C.)          | 70   | 76   |
| Drayton Mfg. Co. (S. C.)             | 100  | 100  |
| Eagle & Phoenix Mills (Ga.)          | 121  | 121  |
| Easley Cotton Mills (S. C.)          | 150  | 160  |
| Enoree Mfg. Co. (S. C.)              | 50   | 65   |
| Enoree Mfg. Co. (S. C.) Pfd.         | 90   | 94½  |
| Enterprise Mfg. Co. (Ga.)            | 82   | 90   |
| Exposition Cotton Mills (Ga.)        | 71   | 75   |
| Gaffney Mfg. Co. (S. C.)             | 55   | 55   |
| Gainesville Cotton Mills (Ga.)       | 55   | 55   |
| Granby Cot. Mills (S. C.) 1st Pfd.   | 50   | 50   |
| Graniteville Mfg. Co. (S. C.)        | 155  | 160  |
| Greenwood Cotton Mills (S. C.)       | 65   | 65   |
| Grendel Mills (S. C.)                | 114  | 114  |
| Henrietta Mills (N. C.)              | 160  | 175  |
| King Mfg. Co. (S. C.)                | 95   | 100  |
| Lancaster Cotton Mills (S. C.)       | 125  | 146  |
| Lancaster Cot. Mills (S. C.) Pfd.    | 95   | 96   |
| Langley Mfg. Co. (S. C.)             | 91   | 96   |
| Laurens Cotton Mills (S. C.)         | 137½ | 140  |
| Limestone Mills (S. C.)              | 140  | 150  |
| Lockhart Mills (S. C.)               | 78   | 81   |
| Lockhart Mills (S. C.) Pfd.          | 96   | 96   |
| Loray Mills (N. C.) Pfd.             | 95   | 95   |
| Marlboro Cotton Mills (S. C.)        | 76½  | 76½  |
| Mayo Mills (N. C.)                   | 155  | 155  |
| Mills Mfg. Co. (S. C.)               | 105  | 105  |
| Mills Mfg. Co. (S. C.) Pfd.          | 109  | 109  |
| Monaghan Mills (S. C.)               | 110  | 115  |
| Monarch Cotton Mills (S. C.)         | 100  | 102  |
| Newberry Cotton Mills (S. C.)        | 130  | 140  |
| Norris Cotton Mills (S. C.)          | 115  | 120  |
| Olympia Cot. Mills (S. C.) 1st Pfd.  | 75   | 80   |
| Orangeburg Mfg. Co. (S. C.) 1st Pfd. | 80   | 80   |
| Orr Cotton Mills (S. C.)             | 105½ | 105½ |
| Pacolet Mfg. Co. (S. C.)             | 120  | 125  |
| Pacolet Mfg. Co. (S. C.) Pfd.        | 99   | 99   |
| Pelzer Mfg. Co. (S. C.)              | 150  | 160  |
| Piedmont Mfg. Co. (S. C.)            | 172  | 175  |
| Poe Mfg. Co. (S. C.)                 | 140  | 140  |
| Richland Cot. Mills (S. C.) 1st Pfd. | 48   | 50   |
| Raleigh Cotton Mills (N. C.)         | 100  | 100  |
| Rosok Mills (N. C.)                  | 160  | 160  |
| Saxon Mills (S. C.)                  | 125  | 125  |
| Sibley Mfg. Co. (Ga.)                | 62½  | 62½  |
| Spartan Mills (S. C.)                | 130  | 140  |
| Springstein Mills (S. C.)            | 100  | 100  |
| Tucapau Mills (S. C.)                | 235  | 250  |
| Trion Mfg. Co. (Ga.)                 | 140  | 140  |
| Union-Buffalo Mills (S. C.) 1st Pfd. | 58½  | 65   |
| Victor Mfg. Co. (S. C.)              | 120  | 125  |
| Warren Mfg. Co. (S. C.)              | 93½  | 95   |
| Warren Mfg. Co. (S. C.) Pfd.         | 100  | 100  |
| Washington Mills (Va.)               | 27   | 30   |
| Washington Mills (Va.) Pfd.          | 106  | 109  |
| Whitney Mfg. Co. (S. C.)             | 140  | 140  |
| Williamston Mills (S. C.)            | 107  | 110  |
| Wicacasset Mills (N. C.)             | 125  | 135  |
| Woodruff Cotton Mills (S. C.)        | 124  | 130  |
| Woodside Cotton Mills (S. C.)        | 99   | 100  |
| Woodside Cot. Mills (S. C.) Pfd.     | 95   | 97½  |

Quotations Furnished by William S.  
Glenn, Broker, Spartanburg, S. C.,  
for Week Ending April 12.

| Bid.                               | Asked. |
|------------------------------------|--------|
| Abbeville Cotton Mills (S. C.)     | 70     |
| Alken Mfg. Co. (S. C.)             | 82     |
| American Spinning Co. (S. C.)      | 145    |
| Anderson Cotton Mills (S. C.)      | 67     |
| Arcadia Mills (S. C.)              | 92     |
| Arkwright Cotton Mills (S. C.)     | 100    |
| Augusta Factory (Ga.)              | 65     |
| Avondale Mills (Ala.)              | 110    |
| Belton Mills (S. C.)               | 116    |
| Brandon Mills (S. C.)              | 145    |
| Cabarrus Cotton Mills (N. C.)      | 120    |
| Chadwick Mfg. Co. (N. C.) Pfd.     | 103    |
| Chilquola Mfg. Co. (S. C.)         | 132    |
| Clifton Mfg. Co. (S. C.)           | 104    |
| Clifton Mfg. Co. (S. C.) Pfd.      | 99     |
| Clinton Cotton Mills (S. C.)       | 105    |
| Columbus Mfg. Co. (Ga.)            | 98     |
| Courtenay Mfg. Co. (S. C.)         | 97     |
| Dallas Mfg. Co. (Ala.)             | 95     |
| Darlington Mfg. Co. (S. C.)        | 70     |
| Converse Co. (S. C.)               | 112    |
| Drayton Mills (S. C.)              | 100    |
| Eagle & Phoenix Mills (Ga.)        | 120    |
| Easley Cotton Mills (S. C.)        | 145    |
| Enoree Mfg. Co. (S. C.)            | 60     |
| Enoree Mfg. Co. (S. C.) Pfd.       | 100    |
| Enterprise Mfg. Co. (Ga.)          | 83     |
| Exposition Cotton Mills (Ga.)      | 240    |
| Gaffney Mfg. Co. (S. C.)           | 72     |
| Gainesville Cotton Mills (Ga.)     | 55     |
| Granby Cot. Mills (S. C.) 1st Pfd. | 45     |
| Graniteville Mfg. Co. (S. C.)      | 160    |
| Greenwood Cotton Mills (S. C.)     | 65     |
| Grendel Mills (S. C.)              | 109    |
| Hartsville Cotton Mill (S. C.)     | 122    |
| Henrietta Mills (N. C.)            | 160    |
| Inman Mills (S. C.)                | 105    |
| Lancaster Cotton Mills (S. C.)     | 110    |
| Lancaster Cot. Mills (S. C.) Pfd.  | 91     |
| Langley Mfg. Co. (S. C.)           | 95     |
| Laurens Mills (S. C.)              | 91     |
| Limestone Mills (S. C.)            | 141    |
| Lockhart Mills (S. C.)             | 78     |
| Lockhart Mills (S. C.) Pfd.        | 96     |
| Loray Cotton Mills (N. C.) Pfd.    | 92     |
| Marlboro Cotton Mills (S. C.)      | 80     |
| Mills Mfg. Co. (S. C.)             | 100    |
| Molokhon Mfg. Co. (S. C.)          | 95     |
| Monaghan Mills (S. C.)             | 115    |
| Monarch Cotton Mills (S. C.)       | 100    |
| Newberry Cotton Mills (S. C.)      | 145    |
| Ninety-Six Cotton Mills (S. C.)    | 115    |
| Norris Cotton Mills (S. C.)        | 120    |
| Odell Mfg. Co. (N. C.)             | 90     |
| Olympia Cotton Mills (S. C.)       | 68     |
| Orr Cotton Mills (S. C.)           | 104    |
| Pacolet Mfg. Co. (S. C.)           | 160    |
| Pacolet Mfg. Co. (S. C.) Pfd.      | 97     |
| Pelzer Mfg. Co. (S. C.)            | 150    |
| Piedmont Mfg. Co. (S. C.)          | 175    |
| Poe Mfg. Co. (S. C.)               | 125    |
| Saxon Mills (S. C.)                | 122    |
| Sibley Mfg. Co. (Ga.)              | 62     |
| Spartan Mills (S. C.)              | 125    |
| Trion Mfg. Co. (Ga.)               | 132    |
| Tucapau Mills (S. C.)              | 245    |
| Union-Buffalo (S. C.) 1st Pfd.     | 60     |
| Victor Mfg. Co. (S. C.)            | 122    |
| Warren Mfg. Co. (S. C.)            | 92     |

|                               |     |     |
|-------------------------------|-----|-----|
| Warren Mfg. Co. (S. C.) Pfd.  | 100 | 100 |
| Washington Mills (Va.)        | 25  | 25  |
| Washington Mills (Va.) Pfd.   | 100 | 110 |
| Whitney Mfg. Co. (S. C.)      | 140 | 140 |
| Wicacasset Mills (S. C.)      | 125 | 135 |
| Woodruff Cotton Mills (S. C.) | 125 | 130 |
| Woodside Cotton Mills (S. C.) | 101 | 101 |
| Watts Mills (S. C.)           | 90  | 90  |
| Williamston Mills (S. C.)     | 105 | 110 |

**New Corporations.**

Birmingham, Ala.—The Merchants and Mechanics' Trust and Savings Bank, capital \$100,000, is reported to have begun business. W. A. Porter is president.

Calvin, Okla.—Incorporated: Citizens' State Bank; capital \$15,000; incorporators, A. P. Selser, W. B. Binthil and J. W. Hundley, all of Calvin; E. C. Millien and A. U. Thomas, both of McAlester, and C. C. Atwood of Newburg.

Carrollton, Texas.—Chartered: First State Bank; capital \$15,000; incorporators, J. C. Davis, J. T. Ogden, H. B. Davis and others.

Edwardsville, Ala.—The Alabama Trust & Savings Co. of Birmingham, Ala., is reported to have opened a branch at Edwardsville in charge of W. K. Smith.

Gadsden, Ala.—The Alabama Bank & Trust Co. expects to begin business about April 20; officers, William H. Porter, president; H. R. Howell, cashier; Dr. C. L. Guice, first vice-president.

Galveston, Texas.—Approved: The People's National Life Insurance Co.; capital \$250,000; incorporators, Fred Schneider, M. W. Shaw, Thomas H. Phillips and C. A. Weatherington.

Gorman, Texas.—Chartered: Continental State Bank; capital \$20,000; incorporators, J. G. Wilkinson, J. E. Willis, Ed. P. Williams, M. G. Denison and J. F. Britton.

Hamlin, Texas.—Chartered: Continental State Bank; capital \$25,000; incorporators, J. G



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100,000 7 per cent. Preferred Stock.  
100,000 of Common Stock.  
In strongest mill corporations.  
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J. C. WANDS, Asst. Cashier.  
JOHN B. H. DUNN, Asst. Cashier.  
Capital, \$1,500,000  
Surplus and Profits, - - - \$900,000  
Deposits, \$12,000,000  
Accounts of Banks, Bankers, Corporations  
and Individuals solicited. We invite corre-  
spondence.

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1st Nat. Bank Bldg., CHICAGO  
We purchase SCHOOL, COUNTY and MU-  
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OF MARYLAND

BALTIMORE, MD

Capital and Surplus, \$2,500,000

MAKES A SPECIALTY OF SOUTHERN BUSINESS

THIS COMPANY acts as Executor, Adminis-  
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Transfer and Fiscal Agent for Railroads, Corporations  
and Financial Concerns, States, Cities and Towns,  
and as Depository under plans of reorganization.

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WALTER D. FOCKE,  
Asst. Secy. and Asst. Treas.

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Norfolk, Va.—Incorporated: Brown Savings & Banking Co.; capital \$10,000 to \$50,000. E. C. Brown is president; John Williams, vice-president, and F. M. Porter, secretary.

Reidsville, N. C.—Approved: First National Bank; capital \$50,000; organizers, R. S. Montgomery, O. M. Boyd, J. G. Hickerson, Jas. Robinson and Robert Hairston.

Richmond, Va.—The Main Street Bank, which succeeds the Fifteenth Street Branch of the Bank of Richmond, has been chartered, with from \$50,000 to \$100,000 capital; directors, John C. Hagan, president; Simon P. Jones, vice-president; F. Horace Hardaway, secretary and cashier; John L. Branch, George W. Brown, R. N. Goode, V. Hechler, Charles Kastelberg, G. W. Lancaster and William E. Tanner.

San Antonio, Texas.—The San Antonio Life Insurance Co. has filed its charter; capital \$500,000; incorporators, Sim Lewis of Waco, H. A. Hodge, Dixie Jordan and J. D. Guinn of San Antonio.

Scranton, Miss.—The People's Pascagoula Bank, capital \$25,000, has made application for a charter. The incorporators are H. Herring, former cashier of the Pascagoula National Bank; C. H. Delmas, S. Seaton, W. J. Morris, J. D. Crane, Scranton; Joseph B. Garrard of Ocean Springs, and R. A. Roberts of Orange Grove.

Shinnston, W. Va.—W. I. Booth of the Merchants and Mechanics' Savings Bank of Grafton is reported to be organizing a bank with \$50,000 capital.

Tifton, Ga.—The Southern Loan Co., capital \$10,000, with privilege of increasing to \$100,000, has made application for a charter. J. C. Smith and Frank Scarborough are the petitioners.

Valdosta, Ga.—The Valdosta & Moultrie Investment Co. has made application for a charter; capital \$10,000 to \$100,000. The incorporators are Frank Roberts, W. B. Conoley, A. L. Davis, D. C. Ashley, J. J. Coppage, W. P. Smith and W. L. Roberts.

Wildersville, Tenn.—The Bank of Wildersville, capital \$20,000, has organized with Ben Jamison, president; Joe P. Parker and S. W. Murphy, vice-president; William Johnson, Jr., cashier. Business is expected to begin about September 1.

Winnsboro, Texas.—The Merchants and Planters' State Bank, capital \$30,000, has organized with directors thus: President, R. G. Andrews; active vice-president, S. M. Woodard; vice-president, J. F. Turner; cashier, A. Morris; M. D. Carlock, W. M. Wrona, W. E. Beggs, A. Morris, S. F. Nelson of Winnsboro and S. J. McFarland of Dallas.

#### New Securities.

Abbeville, S. C.—Voted: \$20,000 of school district building bonds. F. E. Harrison is chairman Board of School Trustees.

Alderson, Okla.—Bids will be received by E. B. Heathcock until April 15, inclusive, for \$20,000 of 6 per cent. 20-year bonds of school district No. 18, Pittsburg county.

Ardmore, Okla.—The Board of Carter County Commissioners has passed a resolution authorizing an election to vote on \$125,000 of courthouse, \$20,000 of bridge and \$30,000 of funding 5 per cent. five-year bonds.

Atlanta, Texas.—Voted: \$15,000 of 4½ per cent. 10-40-year water-works bonds. It is stated they will be offered about June 15.

Austin, Texas.—The State Board of Education has purchased \$33,000 of 4 per

cent, Travis county road and bridge bonds.

Baltimore, Md.—On May 1 bids will be opened for the following city stock: \$500,000 of annex loan, \$500,000 of school-house loan, \$500,000 of engine-house loan and \$250,000 of conduit loan. J. Barry Mahool is Mayor.

Bartlett, Texas.—The State Board of Education is reported to have purchased \$4000 of 4½ per cent. school-building bonds.

Beaumont, Texas.—An election is to be held in Jefferson county, it is stated, to vote on \$400,000 of bonds to deepen the Sabine-Neches Canal and to make improvements in the Neches River.

Birmingham, Ala.—Otto Marx & Co. of Birmingham have been awarded at 104.008 the \$150,000 of 5 per cent. 30-year school bonds.

Bloomington, Texas.—Voted: \$2500 of district No. 13 school-building bonds.

Bowersville, Ga.—Voted: \$10,000 of 5 per cent. 20-30-year school-building bonds.

Brighton, P. O. Bessemer, Ala.—Voted: \$10,000 of sanitary sewer bonds.

Burleson, Texas.—April 24 an election will be held to vote on \$17,000 of 5 per cent. independent school district building bonds.

Camden, S. C.—The Southern National Bank of Wilmington has been awarded at 109.15 the \$40,000 of 5 per cent. 25-year Kershaw county bridge bonds.

Cameron, S. C.—Voted: \$10,000 of school-building bonds.

Canyon, Texas.—Reported that \$4000 of 4 per cent. Randall county courthouse bonds have been purchased by the State Board of Education.

Canton, N. C.—C. A. Webb & Co. of Asheville is said to be the purchaser of the \$65,000 of 5 per cent. 30-year water, sewer and street-improvement bonds recently reported sold.

Chandler, Okla.—Reported that the Trowbridge & Niver Company of Chicago have been awarded \$25,000 of 5 per cent. 25-year sewer bonds at \$87.50 premium.

Chattanooga, Tenn.—The Hamilton County Court has voted to issue \$50,000 of boulevard bonds.

Clarendon, Texas.—Bids will be received until 3 P. M. April 30 for \$25,000 of 5 per cent. 20-40-year sewer bonds. A. L. Journeay is Mayor.

Clay, Ky.—Voted: \$5000 of 6 per cent. Clay school district building and apparatus bonds.

Cleveland, Tenn.—John Nuveen & Co. of Chicago is reported to have purchased \$60,000 of water-works bonds.

Clio, S. C.—The election to vote on \$5000 of 6 per cent. 10-year railroad-aid bonds was defeated.

Colgate, Okla.—Voted: \$50,000 of water-works extension, sewer and city hall bonds.

Columbus, Ga.—An ordinance has been introduced in the City Council providing for an election July 24 to vote on \$75,000 of 4½ per cent. bonds for purchasing site and construction of modern hospital.

Comanche, Texas.—Approved: \$1000 of 5 per cent. 20-year Comanche county common school district No. 30 schoolhouse bonds.

Cookeville, Tenn.—Bids will be received until 10 A. M. April 19 by James N. Cox, secretary of the Road Commissioners of Putnam county, for \$150,000 of 4½ per cent. 30-year bonds.

Covington, Ky.—An ordinance is reported passed by the City Council authorizing an issue of \$85,000 of water-works bonds.

Crowell, Texas.—Application is to be made to the Commissioners' Court asking that an election be held in Foard county to vote on \$60,000 of courthouse building bonds.

Dallas, Texas.—The election held in Dallas county to vote on \$175,000 of bridge bonds was defeated.

Dallas, Texas.—Voted: \$500,000 of reservoir and \$200,000 of public-school bonds. S. T. Hayes is Mayor.

Dandridge, Tenn.—Voted: \$25,000 of Jefferson county refunding bonds.

Easley, S. C.—Bids will be received until noon June 1 by J. M. Geer, chairman board of trustees Easley graded school district, for \$5000 of 5 per cent. 20-year school-enlargement bonds.

El Reno, Okla.—April 27 an election is to be held to vote on \$50,000 of City Hall bonds.

Etowah, Tenn.—E. F. Vandivers, recorder, informs the MANUFACTURERS' RECORD that the city will issue \$15,000 of school bonds at an early date, and would like to receive samples of bonds as well as hear from prospective purchasers.

Fayetteville, Tenn.—Reported that an election is to be held to vote on \$20,000 of school district high-school bonds.

Florence, Ala.—The city has accepted a proposition from Weakley & Weeden to float \$15,000 of 5 per cent. 20-year bonds to pay off floating debt.

Fort Worth, Texas.—Voted: \$50,000 of lighting system extension bonds.

Greenville, Ky.—An election is to be held April 17 to vote on \$12,000 of Greenville graded common school district bonds. T. J. Sparks is one of the trustees.

Fort Worth, Texas.—April 24 an election is to be held to vote on \$250,000 of levee bonds of Tarrant county drainage district No. 1.

Greenville, Tenn.—An election is to be held April 24 to vote on water and electric-light-plant bonds.

Hamlin, Texas.—Approved: \$25,000 of 5 per cent. 5-40-year water-works bonds.

Hampton, Va.—G. W. Hope, city clerk, will receive bids until noon May 5 for \$100,000 of 5 per cent. 40-year street, sewer and improvement bonds.

Haskell, Texas.—The State Board of Education is reported to have purchased \$20,000 of 4 per cent. Haskell county jail bonds.

Hillsboro, Texas.—Voted: \$16,000 of city hall and fire station, \$12,000 of water-works and sewerage improvement and extension, and \$4000 of street-improvement bonds.

Houston, Texas.—J. B. Alpin & Co., contractors, are reported to have purchased \$60,000 of Dairy drainage district (Harris county) bonds.

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Houston Heights, Texas.—Voted: \$20,000 of 5 per cent. 20-30-year school-building bonds. It is stated they will be offered in about 30 days.

Independence, Mo.—All bids received March 31 for the \$250,000 of 4 per cent. 5-20-year Jackson county hospital bonds were rejected, and it is stated will now be offered at private sale.

Jacksonville, Fla.—Gail L. Barnard, county engineer, writes the MANUFACTURERS' RECORD confirming the report that an election will be held May 11 to vote on \$1,000,000 of Duval county road bonds. A press report states that the bonds will be 4½ per cent., and mature in 30 years.

Jefferson, Texas.—Approved: \$8500 of 5 per cent. 10-40-year water-works extension bonds.

Jonesboro, Ala.—Reports state that the \$30,000 school-bond issue recently voted has been considered too large, and that another election will be held May 14 to vote on \$15,000 for the same purpose.

Kentwood, La.—The City Council has passed an ordinance providing for an election May 10 to vote on \$30,000 of school-house bonds.

Knoxville, Tenn.—The Knox County Court has passed a resolution requesting the Legislature to pass an act authorizing an issue of \$500,000 of road bonds.

Lexington, Ky.—Bids will be received by J. O. Simerall, clerk Board of Education, until noon April 20 for \$20,000 of 4½ per cent. 29-year school bonds.

Lafayette, Ga.—Reported that Walker county will vote early in August to decide the question of issuing \$100,000 of road bonds.

Laurel, Miss.—Bids will be received until 8 P. M. May 4 by A. Flanagan, city clerk, for \$10,000 of street-improvement, \$10,000 of water-works extension and \$10,000 of school 5 per cent. bonds.

Lexington, Ky.—The city is considering the question of issuing bonds for water-works and electric lights. John J. Haylor is Mayor.

Longview, Texas.—Approved: \$1500 of 5 per cent. 20-40-year water-works repair bonds.

Loudon, Tenn.—An election is to be held in Loudon county to decide the question of issuing road-improvement bonds.

Lumberton, N. C.—E. H. Rollins & Sons of Boston have been awarded at \$2632.75 premium \$25,000 of 5 per cent. 30-year Robeson county funding bonds.

Lynchburg, Va.—Preliminary steps are reported taken by the Common Council to issue \$400,000 of market-house, auditorium, hospital and school bonds. H. L. Shaney is city clerk.

Macon, Miss.—G. B. Baskerville, Jr., superintendent light and water plant, writes the MANUFACTURERS' RECORD that the city has voted \$20,000 of bonds for improving light and water plant.

Madisonville, Tenn.—Reported that an election will be held in Monroe county next September to vote on \$100,000 of road bonds.

Manchester, Va.—Reports state that the question of issuing about \$40,000 of bonds for street improvements is under consideration.

Manchester, Ky.—Voted: \$5000 of Clay county school district building bonds.

Marshall, Mo.—Voted: \$35,000 of 4½ per cent. 1-5-year Saline county poorhouse bonds.

Mason, Texas.—The Mason county courthouse bonds recently voted amount to \$40,000.

Mayesville, S. C.—Bids will be received until May 1 by J. R. Mayes, S. M. McCall and C. E. King, trustees school district No. 18, for \$7000 of 5 per cent. 20-year bonds.

McMinnville, Tenn.—A Chicago firm is reported to have purchased \$150,000 of 4

per cent. Warren county road bonds voted about two years ago.

Memphis, Tenn.—The City Council has passed an ordinance fixing the rate of interest on the \$1,000,000 of park bonds at 4½ per cent., and to mature in 55 years.

Montgomery, Ala.—The city is reported to have sold \$96,000 of 6 per cent. 20-year North Court street bonds. W. M. Teague is Mayor.

Monticello, Ark.—A movement is under way to form a sewerage improvement district and issue bonds to cover cost of improvement, estimated at about \$35,000.

Morgantown, W. Va.—A. Layton, Mayor, writes the MANUFACTURERS' RECORD that an election will be held May 12 to vote on \$100,000 of school bonds.

Morven, N. C.—May 4 an election is to be held in the Morven high-school district, Anson county, to decide the question of issuing \$8000 of school bonds. C. W. Thomas is clerk and H. B. Allen chairman of the Board of County Commissioners.

Mountain View, Okla.—Preparations are reported being made to call an election to vote on \$15,000 of school-building bonds. C. A. Reed is a member of the School Board.

Nashville, Tenn.—The Davidson County Court has authorized the issue of \$250,000 of bridge bonds.

Nashville, Tenn.—An act is before the Senate providing for \$40,000 of Tennessee State bonds for the support of the University of Tennessee.

New Orleans, La.—The Board of Commissioners of the port of New Orleans will receive bids until May 11 for the remaining \$1,750,000 of the \$2,750,000 bond issue authorized by the last Legislature.

Newton, Ala.—Bids will be received by B. P. Poyner, president, and W. B. Mitchell, secretary, board of trustees, until April 22 for \$16,000 of 6 per cent. 10-20-year school-building and improvement bonds.

Orange, Texas.—Orange county is reported to be considering the question of issuing \$100,000 of bonds to deepen the Sabine-Neches Canal.

Panhandle, Texas.—April 17 an election is to be held to vote on \$17,000 of independent school district bonds.

Pine Bluff, Ark.—Robert M. Foster of St. Louis is reported to have purchased \$20,000 of bonds of Villemont levee district No. 4, Jefferson county.

Pineville, W. Va.—The election held in Wyoming county March 30 to vote on \$50,000 of 6 per cent. 5-30-year courthouse and jail bonds was defeated.

Quincy, Fla.—The MANUFACTURERS' RECORD is informed that an election will be held April 27 to vote on \$80,000 of water-works, light, sewerage and school bonds. The bonds will be 40-year 5 per cent. Herbert A. Love is Mayor, and B. A. Puckett, superintendent water and light plant.

Rome, Ga.—Reports state that the election to vote on \$200,000 of 5 per cent. 30-year Floyd county road bonds will be held in June.

Rotan, Texas.—Voted: \$18,000 of school-building bonds.

Salley, S. C.—The Union Savings Bank of Columbia is reported to have purchased \$5000 of school district bonds.

Salem, Va.—It is stated that the date for receiving bids for \$50,000 of 5 per cent. Roanoke county courthouse bonds is April 19, and not April 10, as previously reported.

Santa Anna, Texas.—Voted: \$25,000 of water-works bonds.

Sarasota, Fla.—G. W. Franklin, Mayor, writes the MANUFACTURERS' RECORD confirming the report that \$25,000 of street-improvement bonds have been voted, and bids for same will be opened April 27.

Seguin, Texas.—The State Board of Education is reported to have purchased \$30,000 of 4½ per cent. Guadalupe county road bonds.

Skiatook, Okla.—April 27 an election will be held to vote on \$4000 of fire-apparatus and water-improvement bonds.

Snyder, Texas.—Reported that an election is to be held to vote on \$25,000 of school bonds.

South Jacksonville, Fla.—Voted: \$50,000 of improvement bonds.

Southern Pines, N. C.—Voted: Bonds for good roads.

Sparta, Tenn.—The \$50,000 of White county pike bonds have been approved and will soon be issued.

Spottsylvania, Va.—May 18 is the date set for holding the election in Spottsylvania county to vote on \$100,000 of road bonds.

Spottsylvania, Va.—Reported that an election will probably be held to vote on \$60,000 of street-improvement bonds.

Springfield, Mo.—Election April 6 to vote on \$125,000 of school district bonds failed to carry.

St. Matthews, S. C.—A Charleston broker is reported to have purchased water-works and electric-light bonds.

St. Petersburg, Fla.—Bids will be received until 8 P. M. May 20 by W. F. Divine, city clerk, for \$45,000 of improvement and \$30,000 of school 5 per cent. 30-year bonds.

Spartanburg, S. C.—A. B. Leach & Co. of New York have purchased at \$8175 premium the \$250,000 of Spartanburg county funding and bridge-building bonds.

Temple, Texas.—Bids will be received by M. O. Woodward, city secretary, until April 27 for \$50,000 of 20-40-year paving bonds.

Spiro, Okla.—An election is to be held, it is stated, to vote on \$40,000 of water-works and electric-light bonds.

Tampa, Fla.—An election is to be held

May 18 to vote on \$480,000 of 5 per cent. 20-55-year bonds as follows: Bridge, \$170,000; paving, \$132,500; sewerage, \$50,000; paving, \$22,500; hospital, \$30,000; city hall, \$75,000.

Teague, Texas.—Voted: \$40,000 of schoolhouse bonds.

Temple, Texas.—Approved: \$44,000 of 5 per cent. 20-40-year water-works bonds.

Texarkana, Ark.—Spitzer & Co. of Toledo, Ohio, is reported to have purchased at \$3048 premium \$136,000 of school-building bonds.

Toccoa, Ga.—The Toccoa Falls Light & Power Co. proposes to issue \$125,000 of 6 per cent. 30-year bonds.

Tonkawa, Okla.—R. J. Edwards of Oklahoma City is reported to have purchased \$18,500 of electric-light, \$5000 of sewer and \$13,500 of 5½ per cent. 20-year bonds.

Tulsa, Okla.—Reports state that the \$171,000 of improvement bonds voted last February have been declared illegal, and that a new election will be held. It is stated that an additional \$65,000 for storm sewers may be asked.

Vinita, Okla.—An election is to be held, it is reported, to vote on \$60,000 of school district bonds.

Wakefield, N. C.—Voted: \$10,000 of Wakelom high-school district bonds.

Wharton, Texas.—An election will probably be called to vote on \$120,000 of school-building bonds.

Wichita Falls, Texas.—The Wichita County Court is reported to be arranging to hold an election to vote on \$60,000 of school-building bonds.

Wichita Falls, Texas.—Voted: \$15,000 of Wichita county jail bonds.

At Laurel, Miss., bids will be received until 8 P. M. May 4 for \$10,000 of street-improvement, \$10,000 of water-works extension and \$10,000 of school 5 per cent. bonds. Further particulars will be found in the advertising columns.

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